HCD-H881/H881D

SERVICE MANUAL

Photo : HCD-H881

US Model
Canadian Model
HCD-H881/H881D

AEP Model
UK Model
E Model
Australian Model
Tourist Model
HCD-H881

- HCD-H881/H881D is the tuner, deck, CD and amplifier section in MHC-811, MHC-D7 and MHC-G88.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM38-5BD19
	Base Unit Name	BU-5BD19
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-220WR2E

SPECIFICATIONS

for the U.S. model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION :
with 8 ohm loads, both channels driven, from 40 – 20kHz ; rated 100 watts per channel minimum RMS power, with no more then 0.9 % total harmonic distortion from 250 milliwatts to rated output.

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser
Wavelength 780 – 790 nm
Frequency response 2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio More than 90 dB
Dynamic range More than 90 dB
CD DIGITAL OUT OPTICAL
(Square optical connector jack, rear panel)
Wavelength 600 nm
Output Level –18 dBm

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range US, Canadian model :
87.5 – 108MHz (100kHz step)
EXCEPT US, Canadian, East European model :
87.5 – 108MHz (50kHz step)
East European model :
FM 1 : 65 – 74MHz (10kHz step)
FM 2 : 87.5 – 108MHz (50kHz step)
Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range US, Canadian model :
531 – 1,710kHz (with the tuning interval set at 9kHz)
530 – 1,710kHz (with the tuning interval set at 10kHz)
AEP, UK, East European, German model :
MW : 531 – 1,602kHz (with the tuning interval set at 9kHz step)
LW : 153 – 279kHz
Italian model :
MW : 522 – 1,611kHz (with the tuning interval set at 9kHz step)
LW : 153 – 279kHz
E, Saudi Arabia, Argentine, Hong Kong, Malaysia, Taiwan, Singapore, Australian, Tourist, Indonesia, CIS, Mexican, Thailand model :
531 – 1,602 kHz (with the tuning interval set at 9 kHz)
530 – 1,710 kHz (with the tuning interval set at 10 kHz)
SW : 5.95 – 17.90MHz
(E3, Saudi Arabia, Hong Kong, Tourist, Malaysia, Singapore, Indonesia, CIS model)
Antenna AM loop antenna, External antenna terminals
Intermediate frequency 450 kHz

Amplifier section

AEP, UK, German, Italian, East European, CIS model :
DIN 50W+50W (8 ohm, 1kHz, 0.8% THD)
RMS 60W+60W (8 ohm, 1kHz, 10% THD)
MUSIC power output 105W+105W (8 ohm, 1kHz, 10% THD)
US, Canadian model :
FTC 100W+100W (8 ohm, 40 – 20kHz, 0.9% THD)
Continuous RMS power output 120W+120W (8 ohm, 1kHz, 5% THD)
Other model
Peak music power output 1200 W
Continuous RMS power output 80 W + 80 W (8 ohm at 1 kHz, 5 % THD)
Inputs
VIDEO/MD IN (phono jacks): voltage 450 mV, impedance 47 kilohm
MIX MIC (phone jacks): sensitivity 1 mV, impedance 10 kilohm

— Continued on page 2 —

MICROFILM

MINI Hi-Fi COMPONENT SYSTEM

SONY®

Outputs
VIDEO/MD OUT (phono jacks):
voltage 250 mV
impedance 1 kilohm
PHONES (stereo phone jack):
accepts headphones of
8 ohm or more
SPEAKER:
accepts impedance of 8 to
16 ohm
SURROUND/SUB SPEAKER:
accepts impedance of
16 ohm
SUPER WOOFER:
Voltage 1 V, impedance
1 kilohms

Tape player section
Recording system
4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
40 - 13,000 Hz (±3 dB),
using Sony TYPE I cassette
40 - 14,000 Hz (±3 dB),
using Sony TYPE II cassette
Wow and flutter
±0.15% W. Peak (IEC)
0.1% W. RMS (NAB)
±0.2% W. Peak (DIN)

Supplied accessories
AM loop antenna (1)
Remote RM-SC100F (1) (HCD-H881 : US, Canadian model)
Remote RM-SD50 (1) (EXCEPT HCD-H881 : US, Canadian model)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)
Speaker cords (4)

General
Power requirements

Destination	Power requirements	Power consumption
US model	120V AC, 60Hz	275W
Canadian model		300VA
Mexican model		190W
Malaysia, Thailand model	220 – 240V AC, 50/60Hz	190W
AEP, German, Italian, CIS, East European model	220 – 230V AC, 50/60Hz	145W
UK model	240V AC, 50/60Hz	145W
Australian model		190W
E, Saudi Arabia, Hong Kong, Tourist, Singapore, Argentine, Indonesia, Taiwan model	110 – 120V/220V – 240V AC, 50/60Hz Adjustable with the Voltage Selector	190W

Dimensions Approx. 280 × 325 × 360 mm ($11\ 1/8 \times 12\ 7/8 \times 14\ 1/4$ in) (w/h/d) incl. projecting parts and controls

Mass US, Canadian model
Approx. 10kg (22 lb)
AEP, UK, German, Italian, East European, CIS model
Approx. 9.5kg (20 lb 15 oz)
Other model
Approx. 9.0kg (19 lb 14 oz)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

Section *Title* *Page*

Specifications ····· 1

1. SERVICING NOTES ····· 5

2. GENERAL
Index to Parts and Controls ····· 6

3. DISASSEMBLY
3-1. Front Panel Removal ····· 7
3-2. CD Block Removal ····· 8
3-3. Lid (A)/(B) Assy, Cassette, Mechanism Deck Block and HP/MIC Board Removal ····· 8

4. ADJUSTMENTS
4-1. Mechanical Adjustments ····· 9
4-2. Electrical Adjustments ····· 9

5. EXPLANATION OF IC TERMINALS ····· 17

6. DIAGRAMS
6-1. Block Diagram – CD Section – ····· 22
6-2. Block Diagram – Main Section (1) – ····· 24
6-3. Block Diagram – Main Section (2) – ····· 27
6-4. Circuit Boards Location ····· 31
6-5. Printed Wiring Boards – Main Section – ····· 33
6-6. Schematic Diagram – Main Section (2/2) – ····· 35
6-7. Schematic Diagram – Main Section (1/2) – ····· 37
6-8. Schematic Diagram – Panel Section – ····· 42
6-9. Printed Wiring Boards – Panel Section – ····· 44
6-10. Printed Wiring Boards – BD Section – ····· 47
6-11. Schematic Diagram – BD Section – ····· 49
6-12. Schematic Diagram – TCB Section – ····· 53
6-13. Printed Wiring Boards – TCB Section – ····· 57
6-14. Printed Wiring Boards – Power Section – ····· 60
6-15. Schematic Diagram – Power Section – ····· 63
6-16. Schematic Diagram – Audio Section – ····· 66
6-17. Printed Wiring Boards – Audio Section – ····· 69
6-18. Printed Wiring Boards – Polar Section – ····· 71
6-19. Schematic Diagram – Polar Section – ····· 71

7. EXPLODED VIEWS
7-1. Chassis Section ····· 75
7-2. Front Panel Section ····· 77
7-3. Mechanism Deck Section-1 ····· 78 (TCM-220WR2E)
7-4. Mechanism Deck Section-2 ····· 79 (TCM-220WR2E)
7-5. Disc Table Assy Section ····· 80 (CDM38-5BD19)
7-6. CDM Chassis Section ····· 81 (CDM38-5BD19)
7-7. Base Unit Section ····· 82 (BU-5BD19)

8. ELECTRICAL PARTS LIST ····· 83

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION	;	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
ADVARSEL	;	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	;	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING	;	LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPARREN ÄR URKOPPLAD
ADVARSEL	;	USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

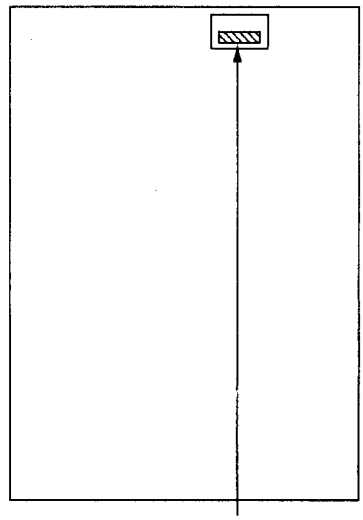
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

– BACK PANEL –



made in Malaysia

4-978-749-0☐ : US model (H881)
4-978-749-1☐ : Canadian model (H881)
4-979-269-0☐ : US model (H881D)
4-979-269-1☐ : Canadian model (H881D)
4-978-749-2☐ : AEP model
4-978-749-3☐ : UK model
4-978-749-4☐ : German model
4-978-749-5☐ : Italian model
4-978-749-6☐ : East European model
4-978-749-7☐ : CIS model
4-979-268-0☐ : E model
4-979-268-1☐ : Saudi Arabia, Taiwan model
4-979-268-2☐ : Australian model
4-978-268-3☐ : Mexican model
4-979-268-4☐ : Malaysia model
4-979-268-5☐ : Singapore model
4-979-268-6☐ : Argentine model
4-979-268-7☐ : Hong Kong model
4-979-268-8☐ : Tourist model

made in Indonesia

4-979-268-9☐ : Thailand, Saudi Arabia model

made in Thailand

4-979-277-0☐ : US model (H881)
4-979-277-1☐ : Canadian model (H881)
4-979-279-0☐ : US model (H881D)
4-979-279-1☐ : Canadian model (H881D)
4-979-277-2☐ : AEP model
4-979-277-3☐ : UK model
4-979-277-4☐ : German model
4-979-277-5☐ : Italian model
4-979-277-6☐ : East European model
4-979-277-7☐ : CIS model
4-979-278-0☐ : E, Indonesia model
4-979-278-2☐ : Australian model
4-979-278-3☐ : Mexican model
4-979-278-5☐ : Singapore model
4-979-278-6☐ : Argentine model
4-979-278-7☐ Hong Kong model

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

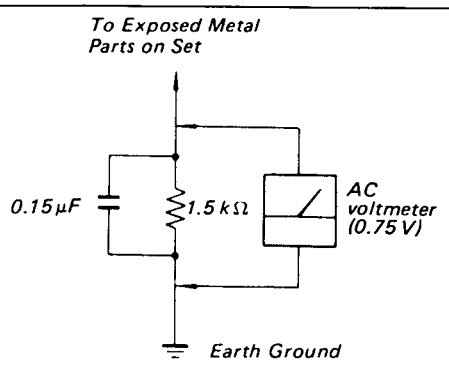


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

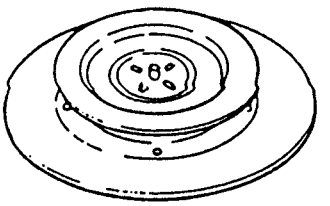
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30cm away form the objective lens.

CHUCK PLATE JIG ON REPAIRING

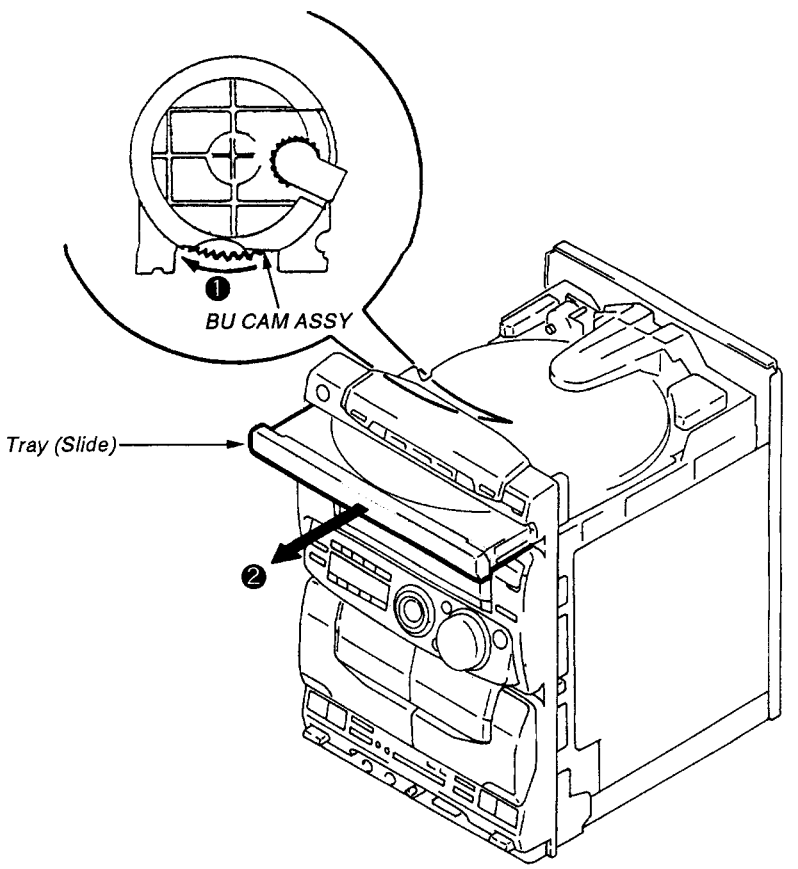
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



- **Tray (Slide) getting out procedure on the power supply is OFF**

  Rotate the BU CAM assembly in the direction of the arrow and pull out the slide.



SECTION 2
GENERAL

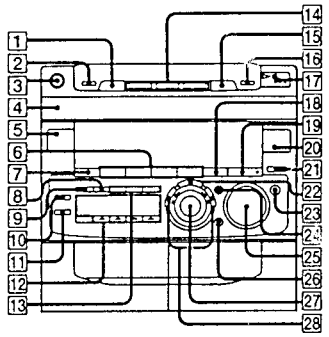
This section is extracted from instruction manual.

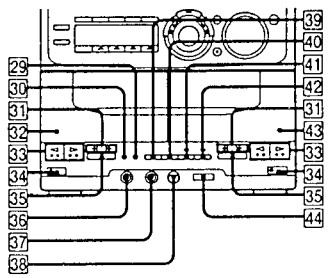
Index to Parts and Controls

Refer to the pages indicated in parentheses for details on how to use the controls. Controls with an asterisk have indicators on themselves.

Front Panel

Amplifier/Tuner section



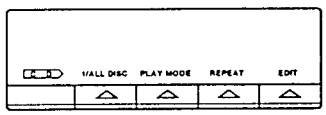


1 POWER switch
2 LOOP button
3 DISC SKIP button
4 Disc tray
5 TIMER button
6 MENU 1 – 4 button
7 DISPLAY/DEMO button
8 CLIP ERASE button
9 CLIP PLAY button
10 DSP button
11 DIGITAL ECHO button
12 MULTI FUNCTION CONTROL button
13 CLIP A – C button
14 DISC 1 – 3 button
15 ⏏ OPEN/CLOSE EX-CHANGE button
16 ▷II (play /pause) button*
17 ■ (stop) button
18 P FILE button
19 TUNER/BAND button*
20 EFFECT ON/OFF button*
21 FUNCTION button
22 ENTER/NEXT button
23 DBFB button
24 GROOVE button
25 VOLUME knob
26 SONIC FORMATION button
27 JOG dial
28 FREQUENCY +/– buttons
29 Deck A
30 DIRECTION button
31 DOLBY NR button
32 ◁◁/▷▷ (fast forward/rewind) button
33 ▷II (play) button*
34 ■ (stop) button
35 ⏏ EJECT button
36 PHONES jack
37 MIX MIC jack
38 Deck B
39 HIGH SPEED DUBBING button
40 CD SYNCHRO button
41 ● REC button
42 II PAUSE button
43 KARAOKE PON/MPX button
44 MIC LEVEL knob

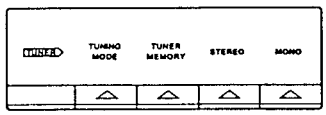
MULTI FUNCTION CONTROL buttons

The button you can operate the CD player, tuner and the tape player light up.

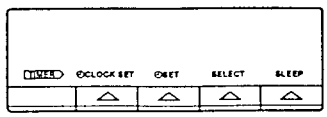
CD



TUNER



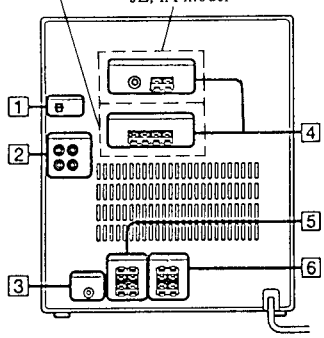
DECK



Rear panel

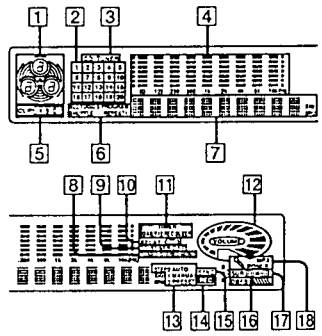
EXCEPT E3, EA, MY, SP, TW, HK, JE, IA model

E3, EA, MY, SP, TW, HK, JE, IA model



1 CD DIGITAL OPTICAL OUT jack
2 VIDEO/MD in/out jacks
3 a super woofer jack (MHC-D7 only)
4 ANTENNA terminals
5 SURROUND SPEAKER L/R jacks
6 SPEAKER jacks

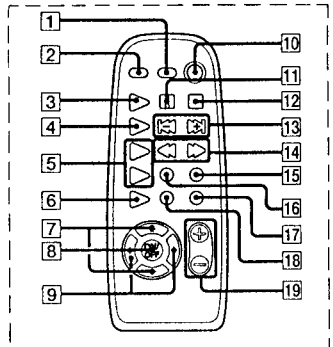
Display Window



1 Disc tray indicator
2 Music calendar
3 CD/TUNER indicator
4 Graphic Equalizer indicator
5 CLIP indicators
6 CD playback indicators
7 Multi display
8 Tuning indicator
9 DOLBY NR indicator
10 Timer indicators
11 Directon mode indicators
12 VOLUME indicators
13 Tuner indicators
14 SYNC REC indicator
15 DBFB indicator
16 SUR 1/2 indicators
17 Karaoke PON/MPX indicators

Remote

EXCEPT HCD-H881 : US, Canadian model

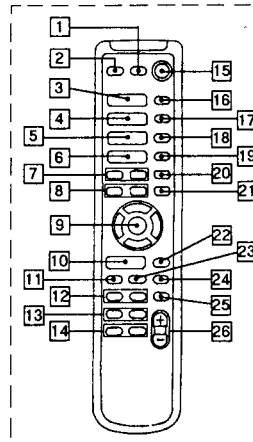


1 SLEEP button
2 LOOP button
3 CD ▷ button
4 TUNER/BAND button
5 DECK A ▷ /DECK B ▷ button
6 FUNCTION button
7 ⏮ / ⏭ button
8 MUSIC MENU ON/OFF button
9 ⏮ / ⏭ button
10 POWER switch
11 II (pause) button
12 ■ (stop) button
13 ⏮ / ⏭ AMS* button
14 ◁ / ▷ (rewind/fast forward) button
15 EDIT button
16 CHECK button
17 DISC SKIP button
18 CLEAR button
19 VOL (+/–) button

* AMS=Auto Music Sensor

Remote

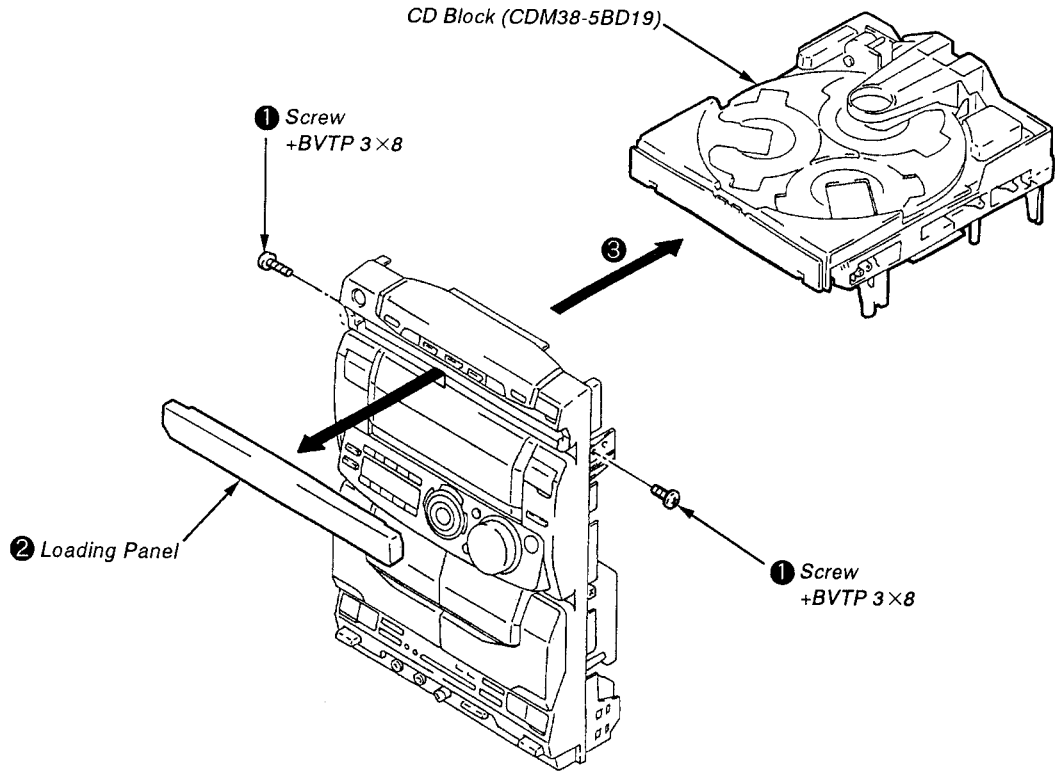
HCD-H881 : US, Canadian model



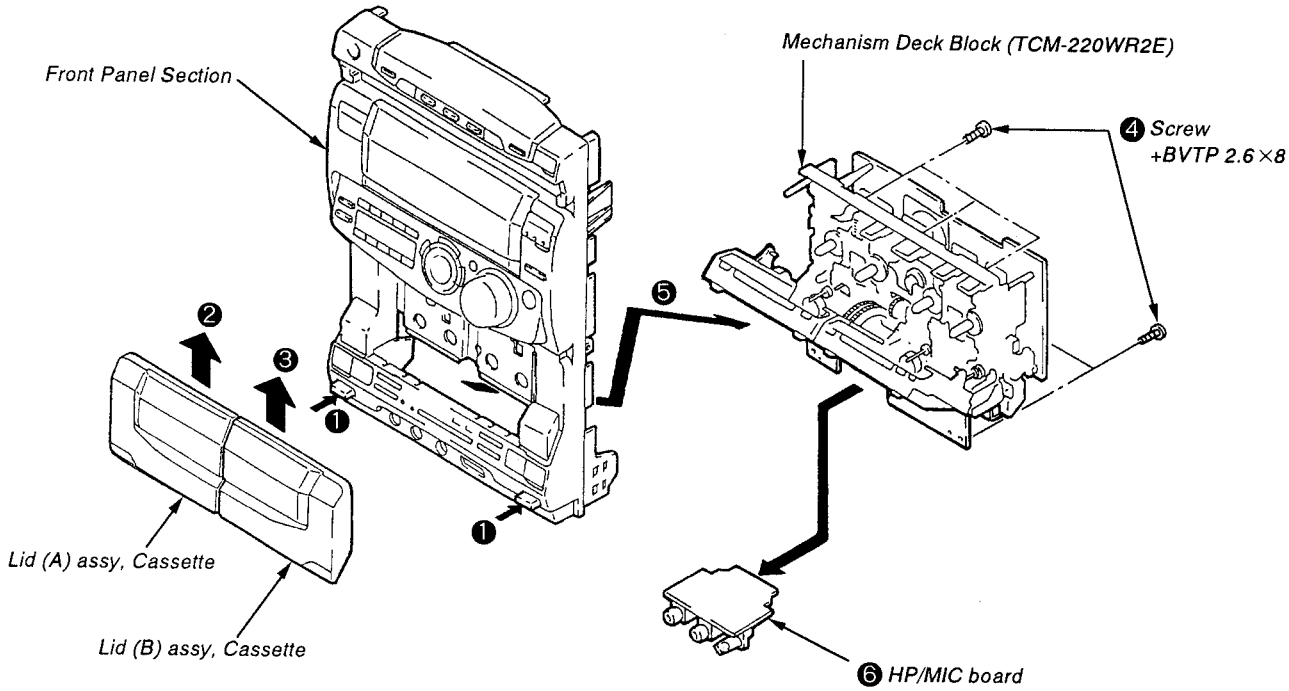
1 FUNCTION button
2 SLEEP button
3 CD ▷ (play) button
4 TUNER/BAND button
5 ◁ ▷ (Deck A) button
6 ◁ ▷ (Deck B) button
7 ⏮/⏭ (TUNING – / +) button
8 ◀◀/▶▶ (deck) button
9 MUSIC MENU SELECT ON/OFF button
10 ▷ (play) button
11 II button
12 ⏮/⏭ button
13 ◀◀/▶▶ button
14 DISC SKIP – / + button
(10–14: 100CD)
15 SYSTEM POWER switch
16 LOOP button
17 CHECK button
18 CLEAR button
19 D. SKIP button
20 ■ (stop) button
21 II (pause) button
22 REPEAT button
23 ■ (stop) button
24 CHECK button
25 CLEAR button
(22–25: 100CD)
26 VOLUME (+ / –) button

• Abbreviation
E3 : Tuner sections SW BAND exist.
EA : Saudi Arabia
MY : Malaysia
SP : Singapore
TH : Thailand
HK : Hong Kong
JE : Tourist
IA : Indonesia
TW : Taiwan

3-2. CD BLOCK REMOVAL



3-3. LID (A)/(B) ASSY, CASSETTE, MECHANISM DECK BLOCK AND HP/MIC BOARD REMOVAL



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head pinch roller
   erase head rubber belts
   capstan
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g•cm (0.50 – 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.028 – 0.083 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 – 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.028 – 0.083 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 – 1.99 oz•inch)

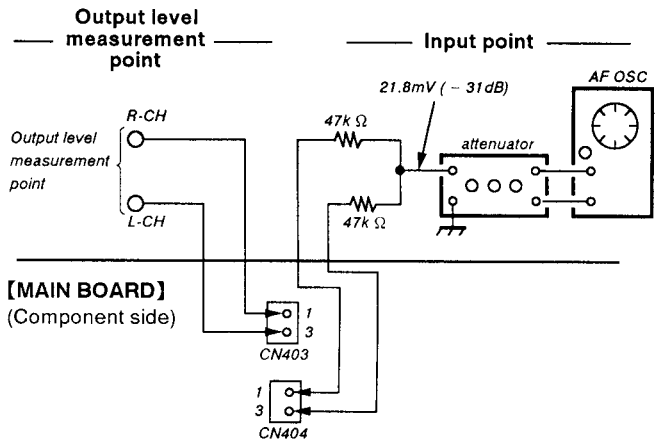
• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.53 oz)
Reverse	CQ-403R	more than 100g (3.53 oz)

4-2. ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch : OFF
   FUNCTION button : OFF
   EFECT switch : OFF
   DBFB switch : OFF
3. Deck section electrical adjustments are made in test mode by pressing DISPLAY/DEMO, TUNER/BAND, MENU1 at the same time.
4. Input point and output level measurement point.



• Test Tape

Tape	Contents	Use
P-4-A100	10kHz, – 10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

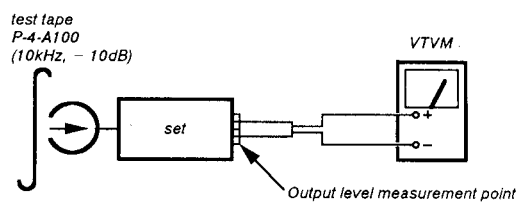
0 dB=0.775V

Record/Playback Head Azimuth Adjustment

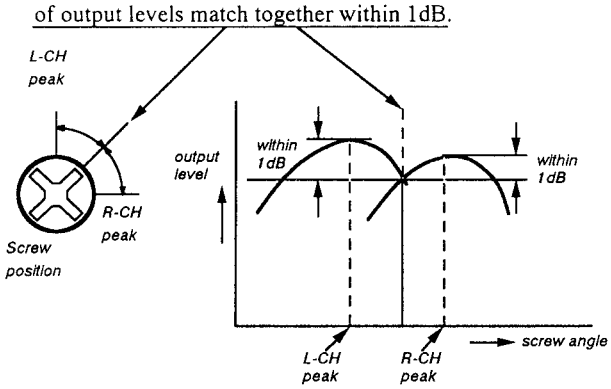
DECK A **DECD B**

Procedure :

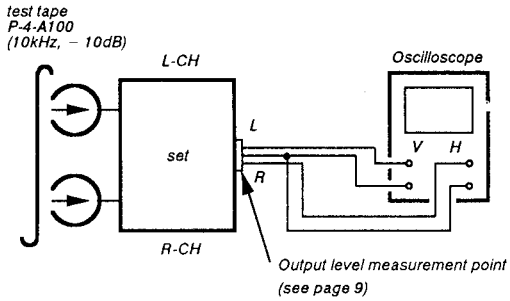
1. Forward Playback mode
   Reverse Playback mode

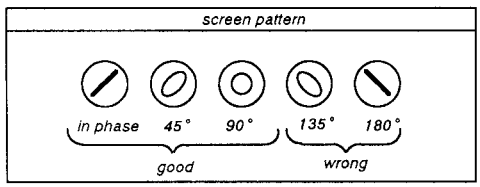


2. Turn the adjustment screw for the maximum output levels.If these levels do not match,turn the adjustment screw until both of output levels match together within 1dB.



3. Playback Mode

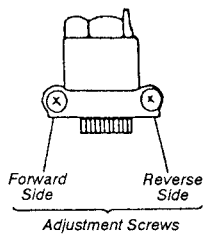




4. Change the review playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :

– record/playback head (Deck A and B) –

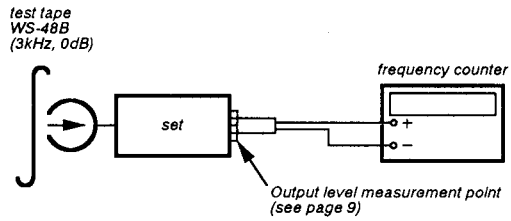


Tape Speed Adjustment DECK A DECK B

Procedure :

- Perform high speed adjustment before normal speed adjustment.

  Mode : Playback



Speed	Deck	Adjustment	Frequency counter
* High	A	RV652	5,970 to 6,030Hz
	B	RV652	
Normal	A	RV651	2,940 to 3,090Hz
	B	RV651	

* Continue to press HIGH SPEED DUBBING switch (S545) in playback mode : High speed playback.

Frequency difference between the begining and the end of the tape should be within ± 3%.

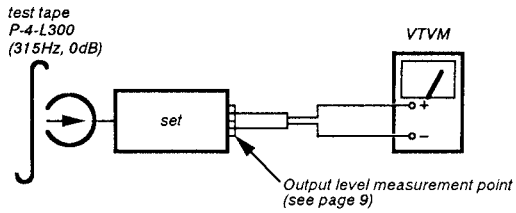
Frequency difference between deck A and deck B the biginning of the tape should be within 1.5%.

Adjustment Location : AUDIO board.
(see page 11)

Playback Level Adjustment DECK A DECK B

Procedure :

– FWD Playback Mode –



Deck A is RV311(L-CH) and RV411(R-CH), deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

LINE OUT level : – 7.5 ± 0.5dB (0.31 to 0.35V)

Level Difference between Channels : within 0.5dB

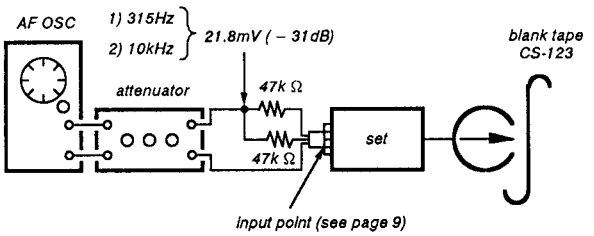
Confirm the OUTPUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : AUDIO board.
(see page 11)

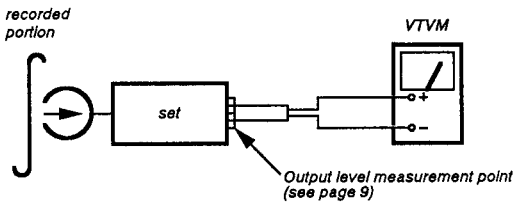
Record Bias Adjustment DECK B

Procedure :

1. Record mode



2. Playback mode



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) to repeat step 1 and 4.

Adjustment level : Playback output of 315Hz to playback output of 10kHz : ± 0.5dB (– 1.3 to 1.3mV).

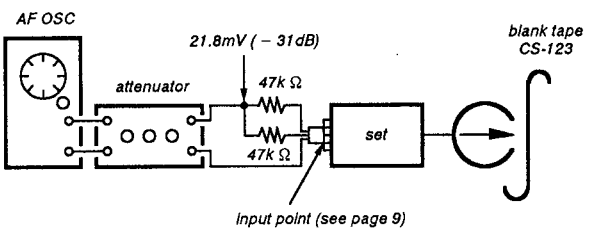
Adjustment Location : AUDIO board.

Record Level Adjustment DECK B

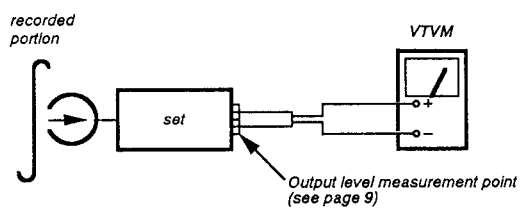
FUNCTION button : CD

Procedure :

1. Record mode



2. Playback mode



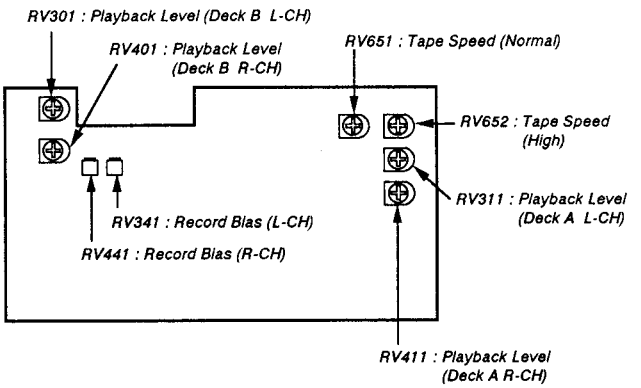
3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) to repeat step 1 and 4.

Adjustment Level :
OUT PUT level : – 26dB ± 0.5dB (36.7 to 41.1mV)

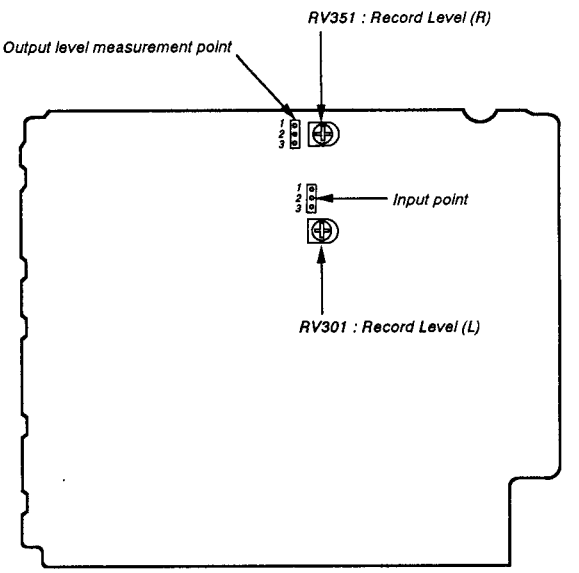
Adjustment Location : MAIN board

Adjustment Location

【AUDIO BOARD 】 – Component side –


RV301 : Playback Level (Deck B L-CH)
RV401 : Playback Level
(Deck B R-CH)
RV651 : Tape Speed (Normal)
RV652 : Tape Speed
(High)
RV311 : Playback Level
(Deck A L-CH)
RV341 : Record Bias (L-CH)
RV441 : Record Bias (R-CH)
RV411 : Playback Level
(Deck A R-CH)

【MAIN BOARD】 – Component side –



TUNER SECTION

Precautions In Repairing

Note. 1 : The adjustment should be performed in the publication. (MW → FM → SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

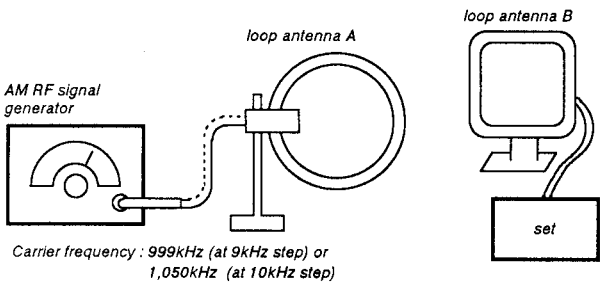
- Abbreviation

CND	: Canadian	AUS	: Australian
IT	: Italian	JE	: Tourist
G	: German	AR	: Argentine
EE	: East European	E2	: Tuner sections SW BAND do not exist.
SU	: Russian		
IA	: Indonesia	E3	: Tuner sections SW BAND exist.
EA	: Saudi Arabia		
HK	: Hong Kong	MX	: Mexican
SP	: Singapore	TH	: Thailand
MY	: Malaysia		

MW Tuned Indication Lighting Level

Setting :

Band : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dBμ/m (0.6mV/m)
2. Tune the set to 999kHz (at 9kHz step) or 1,050kHz (at 10kHz step).
3. Adjust RV41 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model), RV42 (US, CND, E2, AUS, AR, MX, TH model) so that the TUNED indicator goes on.

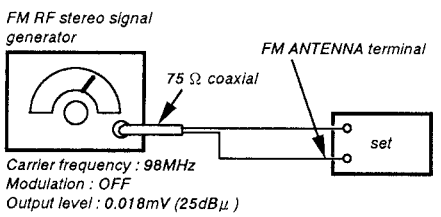
Adjustment Location : TCB board (see page 14)

FM Tuned Indication Lighting Level

Note : Always make the tuning level adjustment first. (Since it affects the the FM tuning level.)

Setting :

Band : FM



Procedure :

1. Tune the set to 98MHz.
2. Adjust RV41 (US, CND, E2, AUS, AR, MX, TH model), RV42 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model) so that the TUNED indicator goes on.

Adjustment Location : TCB board (see page 14)

SW Control Voltage Adjustment (Frequency Coverge Adjustment) (E3, EA, MY, SP, HK, JE model)

Setting :

Band : SW

Procedure :

1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital voltmeter.

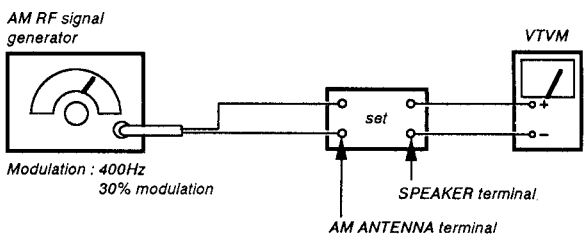
	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95MHz	T2	1.2Vdc
	17.9MHz	CV2	8.5Vdc

Adjustment Location : TCB board (see page 14)

SW Tracking Adjustment (E3, EA, MY, SP, HK, JE, IA, CIS model)

Setting :

Band : SW



Procedure :

Adjust for maximum reading on VTVM

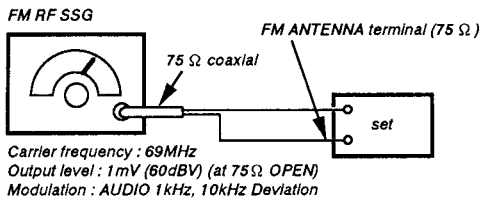
	Set frequency	Adjustment part
SW	7MHz	T1
	17MHz	CV1

- Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

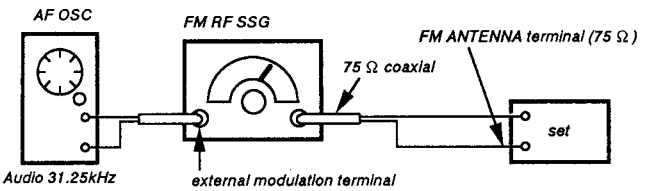
Adjustment Location : TCB board (see page 14)

FM Poler Adjustment (CIS model only)

Connection 1 :


FM RF SSG
FM ANTENNA terminal (75 Ω)
75 Ω coaxial
set
Carrier frequency : 69MHz
Output level : 1mV (60dBV) (at 75Ω OPEN)
Modulation : AUDIO 1kHz, 10kHz Deviation

Connection 2 :



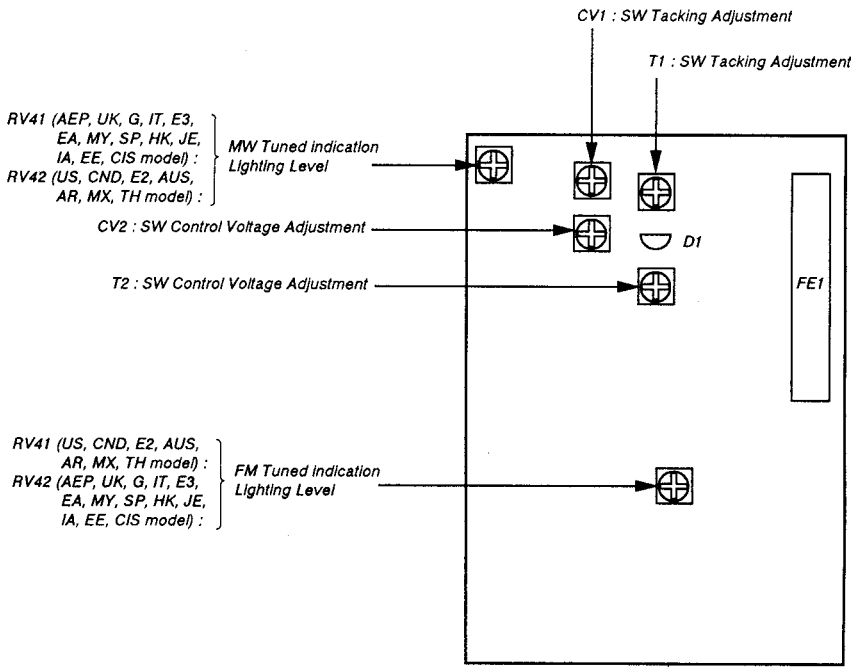
Procedure :

1. Sef the modulation of FM RF SSG to AUDIO 1kHz, 10kHz deviation according to "Connection 1".
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 becomes within 31.25kHz ± 0.05kHz. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25kHz, 10kHz deviation according to "Connection 2".
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 becomes maximum.
   Then adjust the CT1701 so that the reading of the level meter connected to TP1701 becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

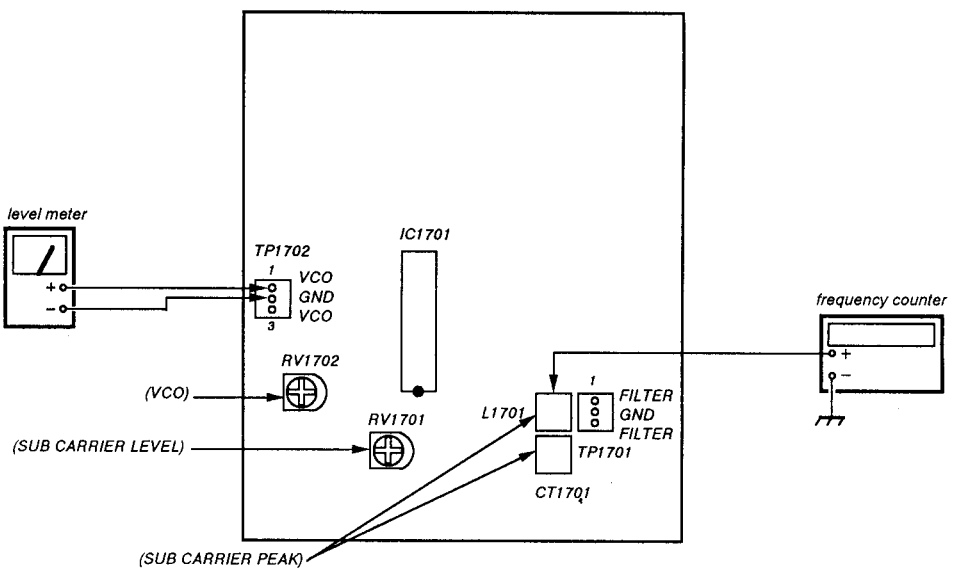
Adjustment Location : POLER board (see page 14)

Adjustment Location

【TCB BOARD】 (Component side)


CV1 : SW Tacking Adjustment
T1 : SW Tacking Adjustment
RV41 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model) :
RV42 (US, CND, E2, AUS, AR, MX, TH model) :
MW Tuned indication Lighting Level
CV2 : SW Control Voltage Adjustment
D1
T2 : SW Control Voltage Adjustment
FE1
RV41 (US, CND, E2, AUS, AR, MX, TH model) :
RV42 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model) :
FM Tuned indication Lighting Level

【POLER BOARD】 (Component side)



CD SECTION

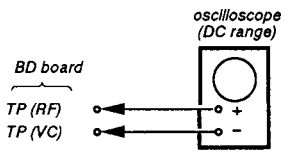
Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

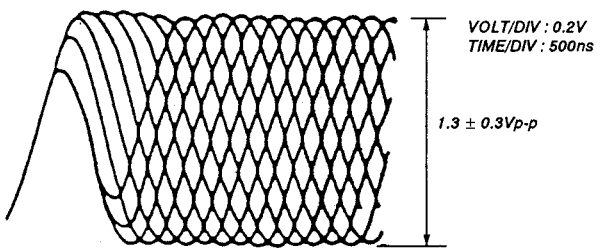
This adjustment is to be done when the optical block is replaced.

Adjustment procedure :



1. Connect oscilloscope to test point TP (VC) and TP (RF) on BD board.
2. Turned power switch ON. (Stop mode)
3. Put disc (YEDS-18) in and press the ▷II button.
4. Adjust RV101 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

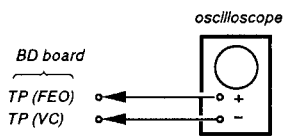
   ● RF signal reference waveform (eye pattern)



   When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Adjustment Location : BD board (see page 16)

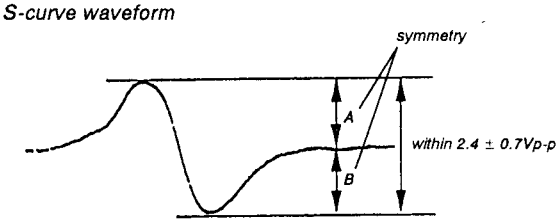
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) and BD board.
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7Vp-p.

S-curve waveform

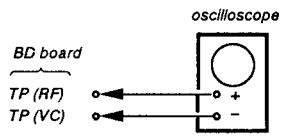


6. After check, remove the lead wire connected in step 2.

Note : ● Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
● Take sweep time as long as possible and light up the brightness to obtain best waveform.

Adjustment Location : BD board (see page 16)

RF Level Check



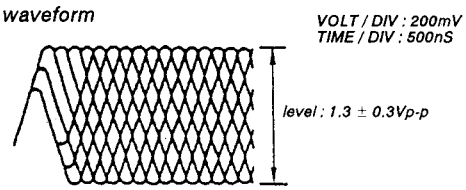
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and press the ▷II button.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

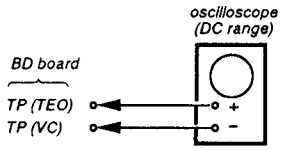
Clear RF signal waveform means that the shape " ◇ " can be clearly distinguished at the center of the waveform.

RF signal waveform



Adjustment Location : BD board (see page 16)

E-F Balance Check



Procedure :

1. Ground main board IC701 (pin ㊴) with the lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and press the ▷II button.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform

Specified value : ● $\frac{A-B}{2(A+B)} \times 100$ = less than ± 7%

● A+B = 300 ± 100mVp-p

6. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

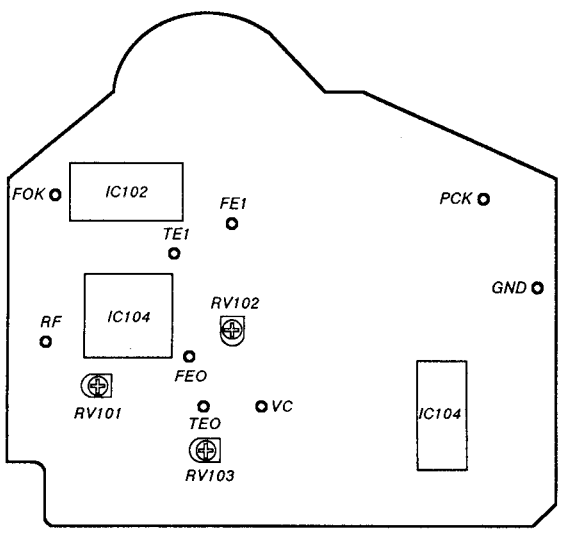
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

【BD BOARD】 – Conductor side –



SECTION 5
EXPLANATION OF IC TERMINALS

IC500 ASD0204-012-3BA (SYSTEM CONTROL /FL DRIVE)

Pin No.	Pin name	I/O	Description
1	VDD	–	Power supply. (+5V)
2	LED8	O	LED drive output. (EFFECT ON/OFF, GROOVE)
3	LED7	O	LED drive output. (DECK B : ▷ PLAY, ◁ PLAY)
4	LED6	O	LED drive output. (DECK B : ● REC, ▮▮ PAUSE)
5	LED5	O	LED drive output. (DECK A : ▷ PLAY, ◁ PLAY)
6	LED4	O	LED drive output. (TUNER/BAND, CLIP C)
7	LED3	O	LED drive output. (ENTER/NEXT, SONIC FORMATION)
8	LED2	O	LED drive output. (MULTI JOG STATION ⏮/⏭, ▁▁/▔▔)
9	LED1	O	LED drive output. (MULTI JOG STATION +/ –)
10	$\overline{\text{RESET}}$	I	Reset terminal.
11	X2	–	Oscillator connection terminal. (5MHz)
12	X1	–	Oscillator connection terminal. (5MHz)
13	IC (VPP)	–	GND connection.
14	XT2	–	Oscillator connection terminal. (Not used : OPEN)
15	JOG-B	I	JOG dial encoder input.
16	VDD	–	Power supply. (+5V)
17	LED10	O	LED drive output. (CLIP B, DSP)
18	LED9	O	LED drive output. (CLIP A, ECHO)
19	KEY-SEL	O	Not used. (OPEN)
20	VOL-B	I	Volume encoder input.
21	REQ-GM	O	Data Transmission request output to master control (IC701).
22	CLK-MG	I	Clock input for communications with master control (IC701).
23	DATA-GM	O	Serial data output from master control (IC701).
24	DATA-MG	I	Serial data input from master control (IC701).
25	AVSS	–	GND
26 – 29	SPEANA4 – 1	I	Spectrum analyzer signal input.
30 – 33	KEY4 –1	I	Key data input. (A/D converter)
34	AVDD	–	Power supply for analog. (+5V)
35	AVREF	–	Reference Voltage for A/D converter. (+5V)
36	VOL-A	I	Volume encorder input.
37	JOG-A	I	JOG dial encorder input.
38	RDY-MG	I	Master control with Ready signal input. L : Ready
39	SIRCS	I	SIRCS signal input.
40	VSS	–	GND
41	LED14	O	LED drive output. (DISC 1)
42	LED SELECT	O	LED drive select output.
43	LED13	O	LED drive output. (▷⏸)
44	LED12	O	LED drive output. (DISC 3)
45	LED11	O	LED drive output. (DISC 2)
46	VDD	–	Power supply. (+5V)
47 – 50	LEDS7 – 4	O	Not used. (OPEN)

Pin No.	Pin name	I/O	Description
51	LEDS3	O	LED drive output. (MULTI CD)
52	LEDS2	O	LED drive output. (MULTI TUNER)
53	LEDS1	O	LED drive output. (MULTI TIMER)
54 – 78	SEG32 – 8	O	Segment output to FL501.
79	V LOAD	–	Power supply for fluorescent indicator tube.
80 – 86	SEG7 – 1	O	Segment output to FL501.
87-100	GR14 – 1	O	Grid output to FL501.

IC701 TMP87CS64YF - 6361 (MASTER CONTROL)

Pin No.	Pin name	I/O	Description
1	VSS	–	GND
2	X OUT	O	Oscillator connection terminal (10MHz).
3	X IN	I	Oscillator connection terminal (10MHz).
4	$\overline{\text{RESET}}$	I	Reset signal input terminal. L : RESET
5	X OUT	O	Oscillator connection terminal (32KHz).
6	X IN	I	Oscillator connection terminal (32KHz).
7	GND (TEST)	–	Not used (GND).
8	$\overline{\text{AC CUT}}$	I	Power supply DET input terminal.
9	SUPER WOOFFER ON	O	SUPER WOOFFER ON/OFF control.
10	ST MUTE ON	O	TUNER Mute ON/OFF control.
11	$\overline{\text{180 A PLAY}}$	I	Not used (GND).
12	$\overline{\text{180 B PLAY}}$	I	Not used (GND).
13	$\overline{\text{180 B REC}}$	I	Not used (GND).
14	$\overline{\text{V • DET CLOCK CHECK}}$	I	Voltage Detection terminal. (for CLOCK BACK UP)
15	$\overline{\text{DO UP (5CD)}}$	I	UP/DOWN MOTOR control. Not used (OPEN).
16	$\overline{\text{TRY CLOSE (1CD)}}$	I	Not used (GND).
17 – 19	ENCODER 1 – 3	I	Rotary encoder input terminal.
20	$\overline{\text{OUT SW OPEN}}$	I	Loading out switch input.
21	LOAD IN	O	Loading Motor control output (Loading input).
22	LOAD OUT	O	Loading Motor control output (Loading output).
23	TBL-L	O	Table motor control output.
24	TBL-R	O	Table motor control output.
25	SCOR	I	Sub code SYNC input from DSP (IC103).
26	TBL SENS	I	Table Sensor input.
27	RDS INT	I	RDS DATA START signal input.
28	RDS DATA	I	RDS DATA input.
29	DF LAT	O	Latch output to the digital filter (IC104).
30	SENS	I	Sens signal input from the DSP (IC103).
31	$\overline{\text{XRST}}$	O	CD reset signal output terminal.
32	$\overline{\text{MG • RDY}}$	I/O	System control (IC500) with Ready signal input/output. L : Ready
33	$\overline{\text{ADJ}}$	I	CD test mode terminal. L : ADJ Mode
34	$\overline{\text{GM REQ}}$	I	Data transmission request input from system control (IC500).
35	MG CLK	O	Clock output for communications with system control (IC500).
36	GM DATA	I	Serial data input from system control (IC500).
37	MG DATA	O	Serial data output to system control (IC500).
38	CD CLK	O	Serial data transfer clock output to DSP (IC103) and digital filter (IC104).
39	$\overline{\text{ADJ 2}}$	I	CD test mode terminal. L : ADJ 2 Mode
40	CD DATA	O	Serial data output to DSP (IC103) and digital filter (IC104).
41	DBFB ON	O	Not used (OPEN).
42	DBFB OFF	O	Not used (OPEN).
43	FOCUS SW	O	High-pass gain select output of the focus servo.
44	SQ CLK	O	Sub code Q read clock output to the DSP (IC103).
45	SQ DATA	I	Sub code Q data input from DSP (IC103).

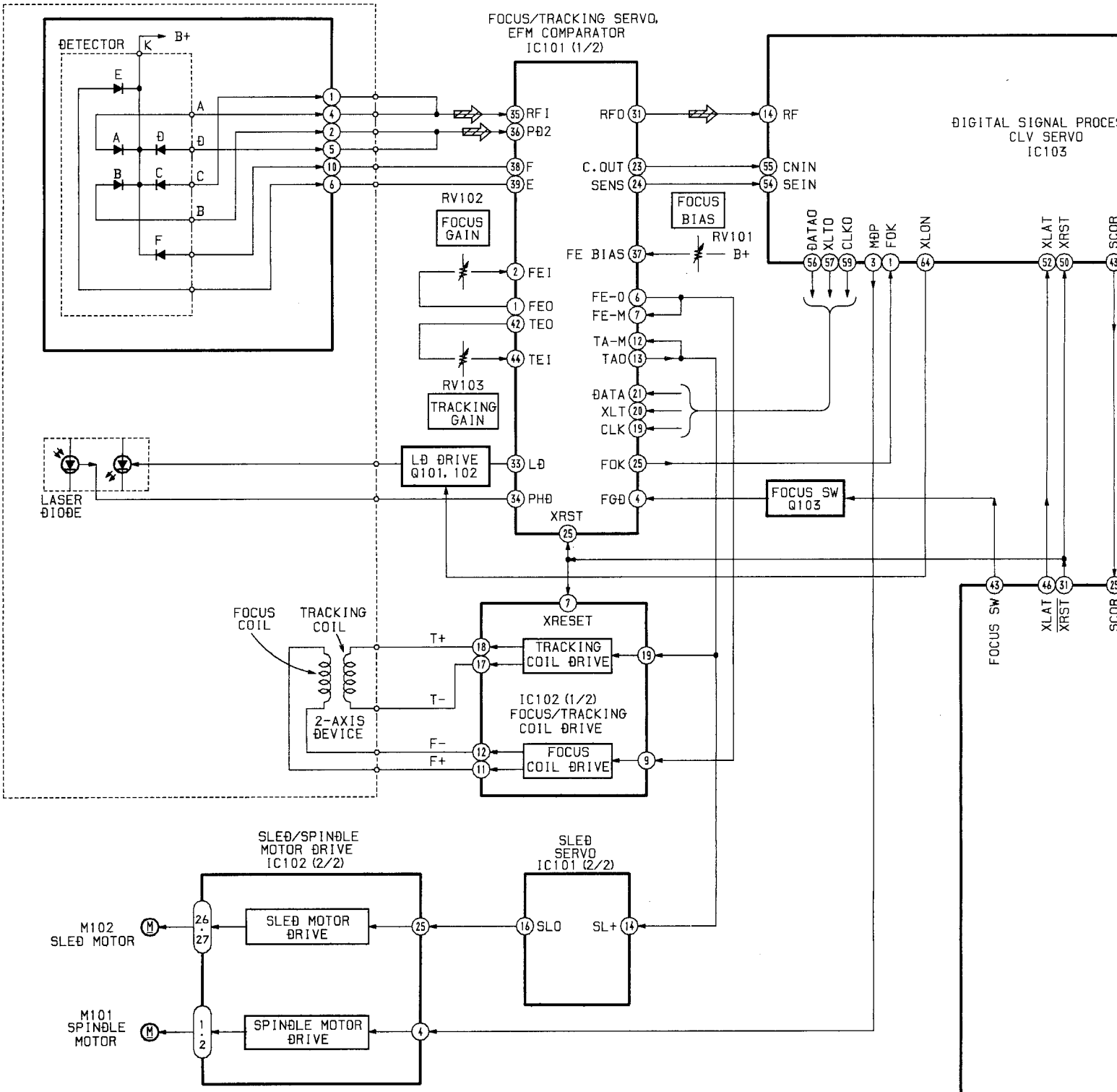
Pin No.	Pin name	I/O	Description
46	X-LAT	O	Serial data latch output to the DSP (IC103).
47	TEST	O	Terminal for test mode.
48	VAREF	–	Reference Voltage for A/D converter. (+5V)
49	VASS	–	GND for analog (GND).
50	VSS	–	GND
51	VDD	–	Power supply. (+5V)
52	SPEC	I	Terminal for mechanism selection.
53	DESTINATION	I	Terminal for model selection.
54	DISC SENS	I	Disc Sensor input terminal.
55	TC RELAY	O	REC/PB head selector signal output.
56	A-SHUT	I	Deck-A reel table detect.
57	B-SHUT	I	Deck-B reel table detect.
58	B-HALF	I	Deck-B cassette detect.
59	A-HALF	I	Deck-A cassette detect.
60	220 A PLAY	I	Deck-A play detect.
61	220 B PLAY	I	Deck-B play detect.
62	62427-LAT	O	Serial data latch output to IC 901.
63	K-CON-LAT	O	Not used (OPEN).
64	VOL-LAT (AV)	O	Not used (OPEN).
65	FRONT • SP RELAY B	O	Front speaker Relay Drive output.
66	REAR • SP RELAY C	O	Rear speaker Relay Drive output.
67	$\overline{\text{POWER ON}}$	O	Power ON output. L : ON
68	CD POWER	O	CD power switch output.
69	$\overline{\text{PROLOG LAT}}$	O	Not used (OPEN).
70	$\overline{\text{MUTE}}$	O	Mute ON/OFF control. L : Mute ON
71	COM CLK	O	System clock (COM) output.
72	COM DIN	I	Serial data input from tuner.
73	COM DATA	O	Serial data (COM) output.
74	$\overline{\text{K-COM-ON}}$	O	Not used (OPEN).
75	RIGID LED	O	Not used (OPEN).
76	MD/VIDEO	O	MD/VIDEO level chage output. (not used)
77	$\overline{\text{DBFB HIGH}}$	O	DBFB LOW/HIGH control. L : DBFB High
78	$\overline{\text{CD PWM SEL}}$	O	Tray mechanism control selection (GND connection).
79	$\overline{\text{PRO LOGIC RELAY}}$	O	Not used (OPEN).
80	$\overline{\text{TC-A}}$	O	Deck A/B Selection output. L : Deck-A
81	$\overline{\text{NORM}}$	O	NORMAL/HIGH Selection output. L : Normal (for tape EQ)
82	$\overline{\text{BIAS OFF}}$	O	Bias ON/OFF Selection output. L : Bias OFF
83	$\overline{\text{REC MUTE}}$	O	REC Mute ON/OFF Selection output. L : Mute ON
84	$\overline{\text{NR OFF}}$	O	NR ON/OFF Selection output. L : NR OFF
85	$\overline{\text{PB}}$	O	REC/PB Selection output. L : PB
86	$\overline{\text{PASS • AMP/DOLBY}}$	O	Dolby pass signal output.
87	$\overline{\text{LINE MUTE ON}}$	O	Line mute signal output. L : Mute ON
88	$\overline{\text{CAP • M HIGH}}$	O	Capstan moter HIGH/LOW Selection output. L : High
89	A – TRG	O	Trigger motor control output.
90	B – TRG	O	Trigger motor control output.

Pin No.	Pin name	I/O	Description
91	$\overline{\text{TRG LOW}}$	O	Trigger motor HIGH/LOW control output. L : LOW
92	$\overline{\text{CAP • M ON}}$	O	Capstan motor ON/OFF control output. L : ON
93	$\overline{\text{STEREO}}$	I	FM/AM Stereo identification. L : Stereo
94	$\overline{\text{TUNED}}$	I	FM/AM Tuning identification. L : Tuning
95	ST-CE	O	Chip enable output to Tuner.
96	$\overline{\text{DELAY SEL • MIC}}$	O	Not used (OPEN).
97	$\overline{\text{DELAY ON}}$	O	Delay ON/OFF control output. L : Delay ON
98	DELAY LEVEL-A	O	Delay level control output.
99	DELAY LEVEL-B	O	Delay level control output.
100	VDD	–	Power supply. (+5V)

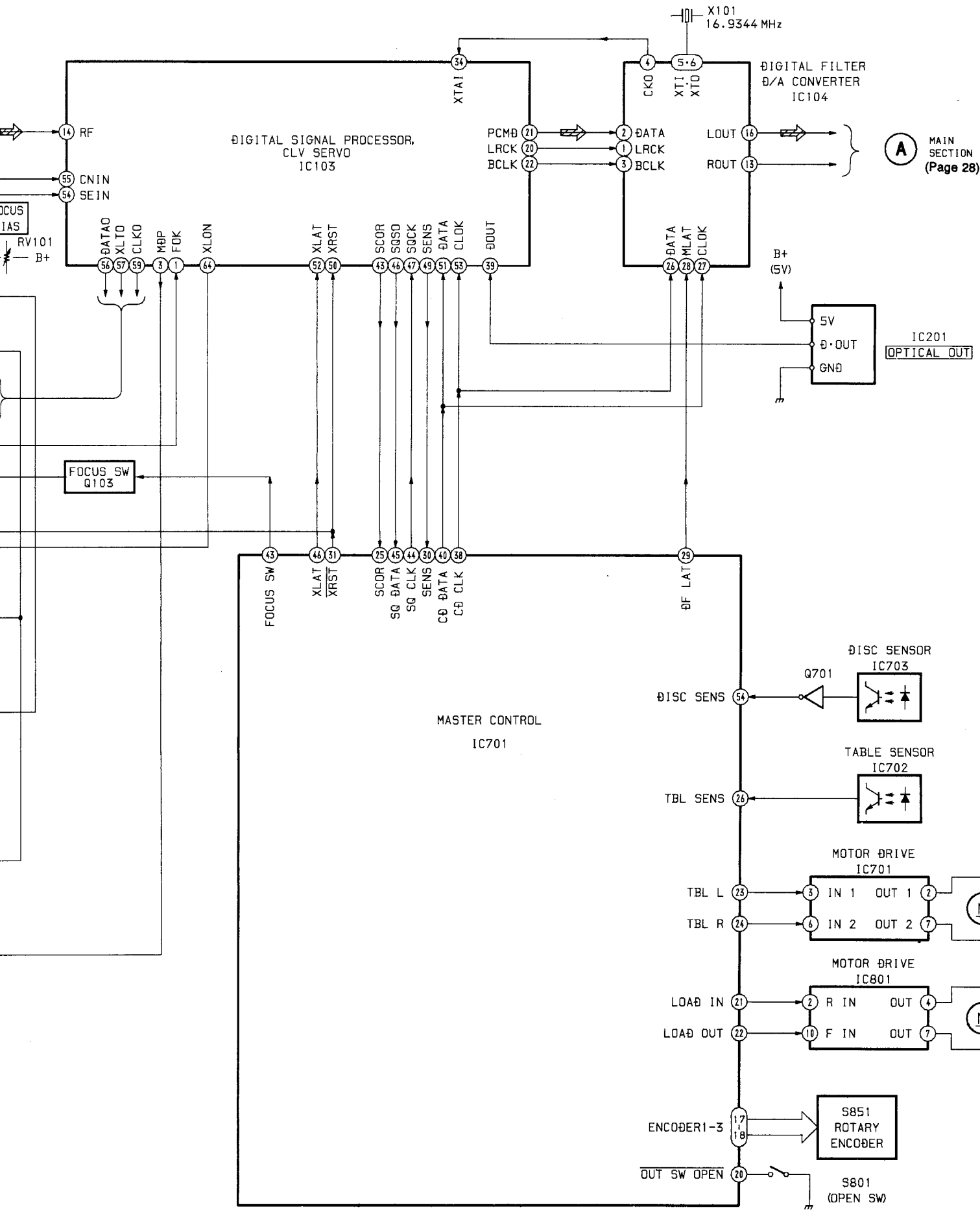
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD SECTION –

OPTICAL PICK-UP BLOCK

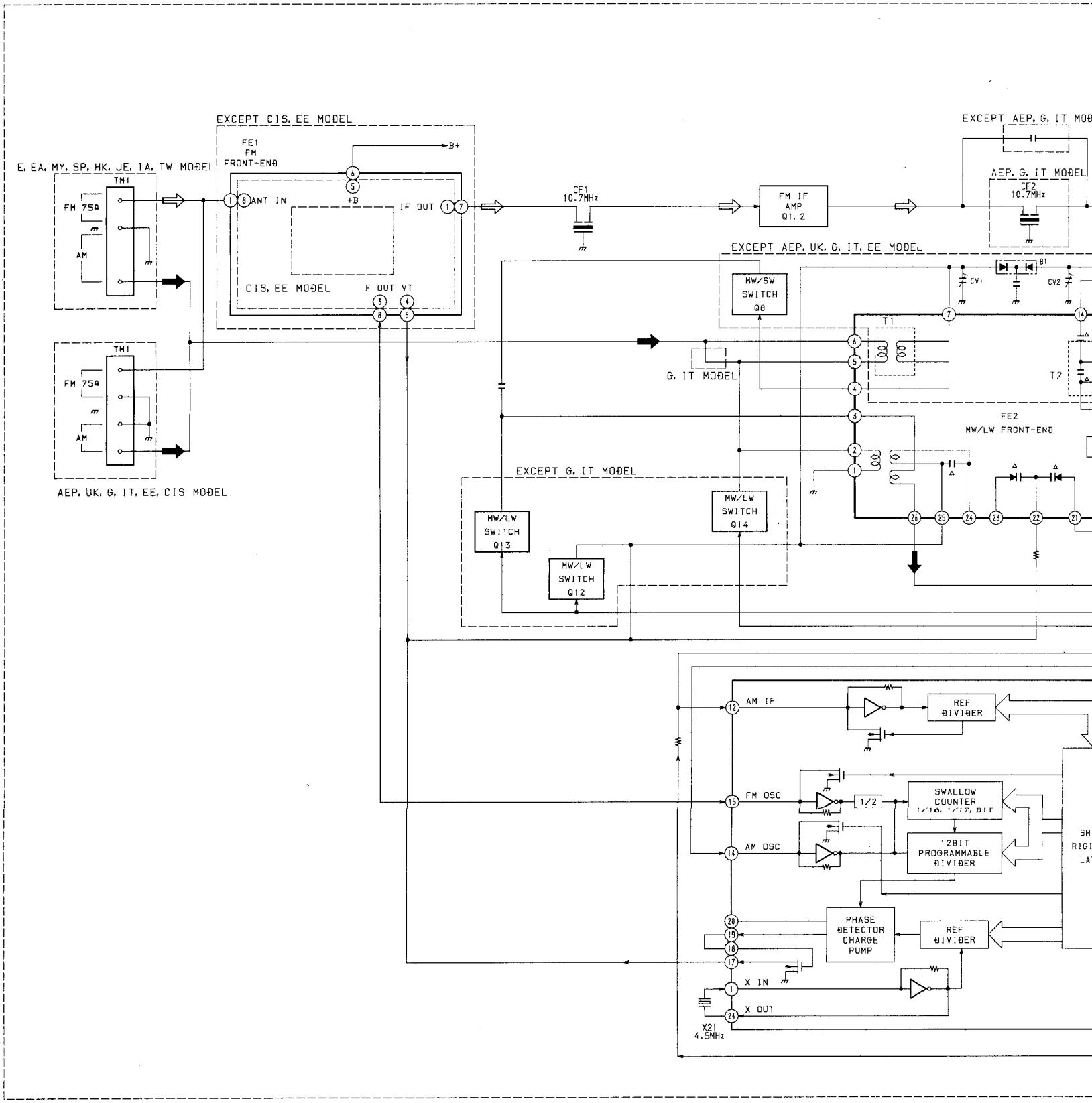


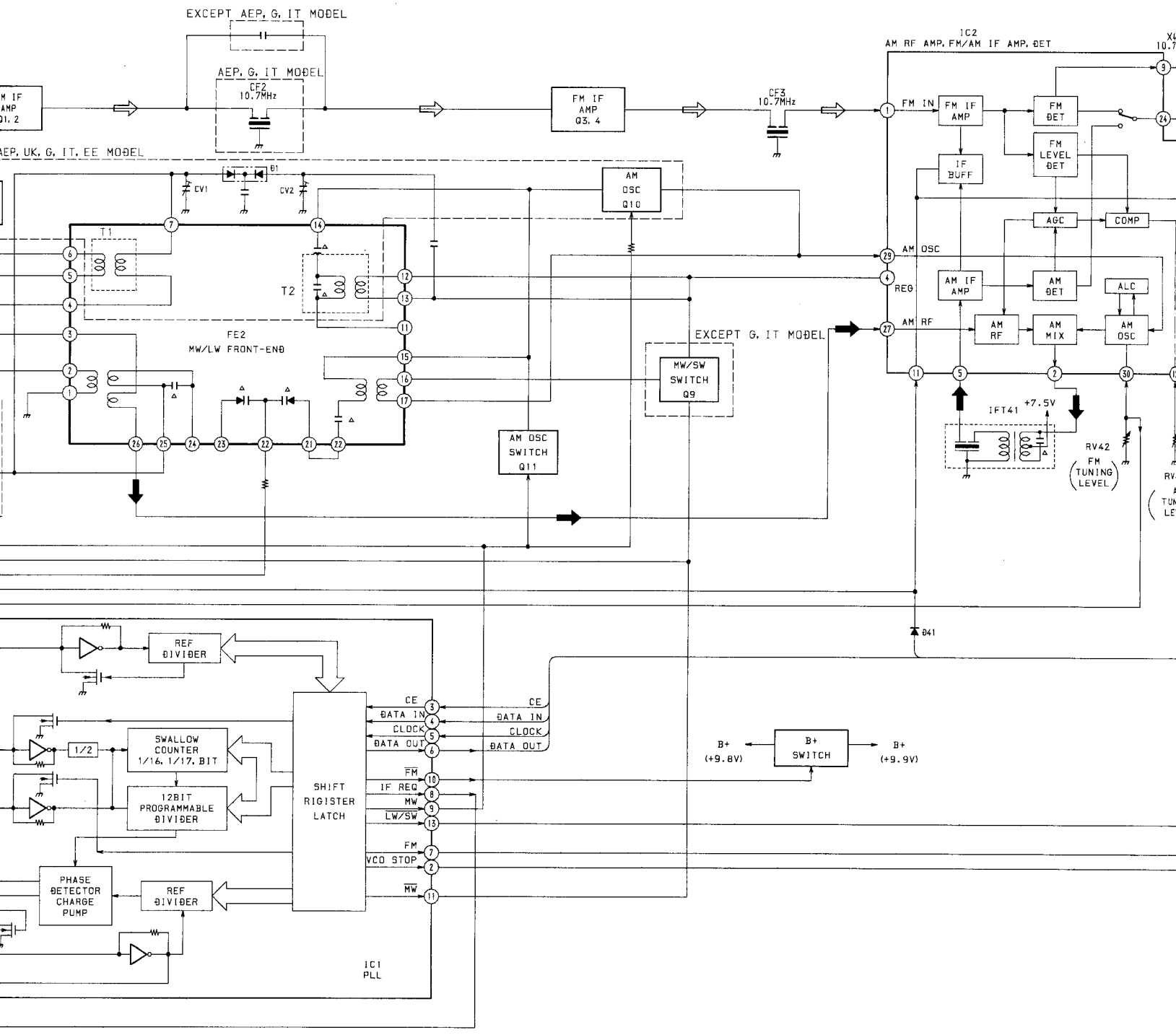
02

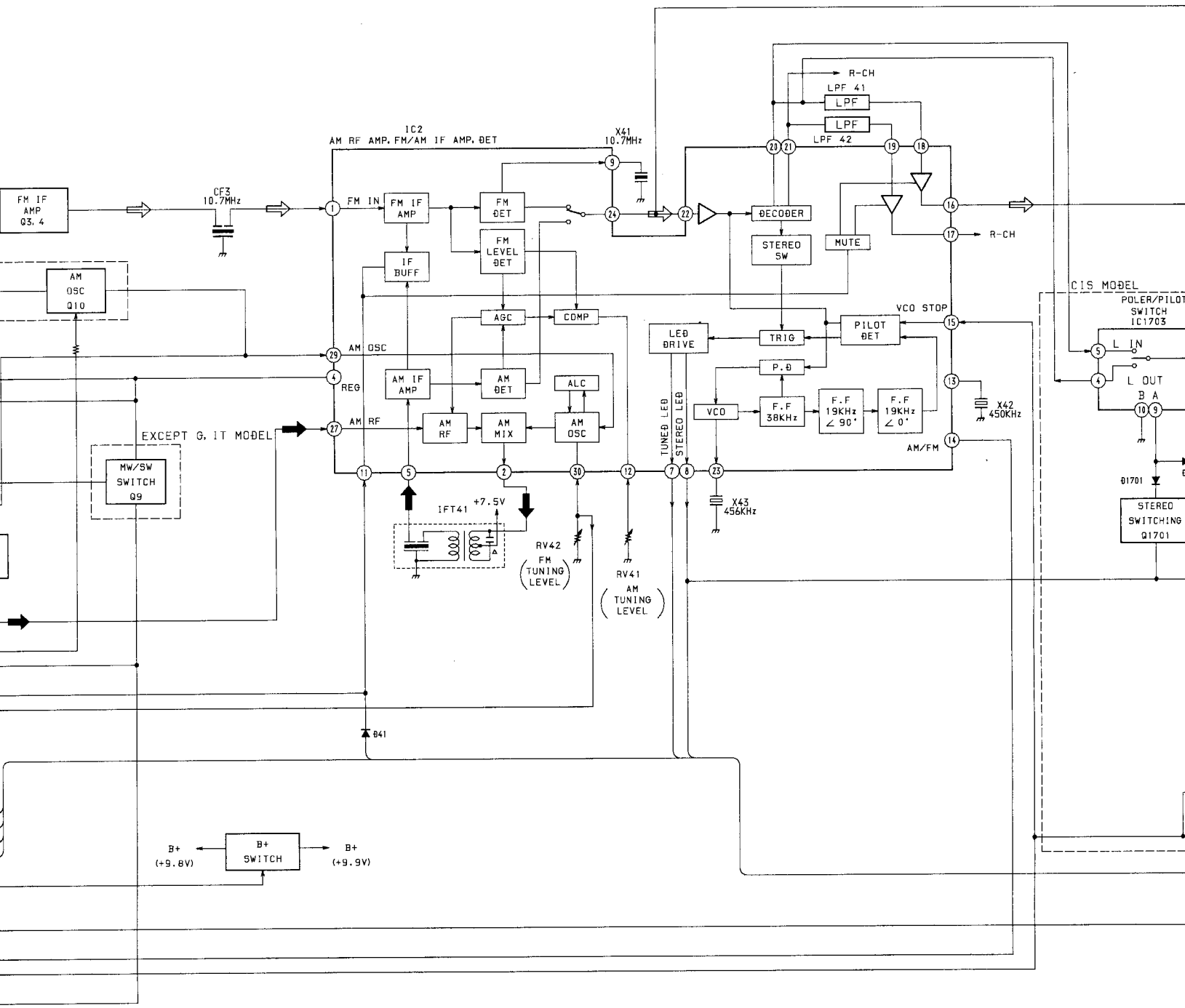

X101
16.9344 MHz
XTAI
CKO
XTI
XTO
DIGITAL FILTER
D/A CONVERTER
IC104
RF
CNIN
SEIN
DIGITAL SIGNAL PROCESSOR,
CLV SERVO
IC103
PCMD
LRCK
BCLK
DATA
LRCK
BCLK
LOUT
ROUT
A
MAIN
SECTION
(Page 28)
RV101
B+
DATAO
XLTO
CLKO
MDP
FOK
XLON
XLAT
XRST
SCOR
SQSO
SQCK
SENS
DATA
CLOK
DOUT
DATA
MLAT
CLOK
B+
(5V)
5V
D·OUT
GND
IC201
OPTICAL OUT
FOCUS SW
Q103
FOCUS SW
XLAT
XRST
SCOR
SQ DATA
SQ CLK
SENS
CD DATA
CD CLK
DF LAT
MASTER CONTROL
IC701
DISC SENSOR
IC703
Q701
DISC SENS
TABLE SENSOR
IC702
TBL SENS
MOTOR DRIVE
IC701
TBL L
TBL R
IN 1
OUT 1
IN 2
OUT 2
M701
TURN
MOTOR
MOTOR DRIVE
IC801
LOAD IN
LOAD OUT
R IN
F IN
OUT
OUT
M801
SLIDE
MOTOR
ENCODER1-3
S851
ROTARY
ENCODER
OUT SW OPEN
S801
(OPEN SW)

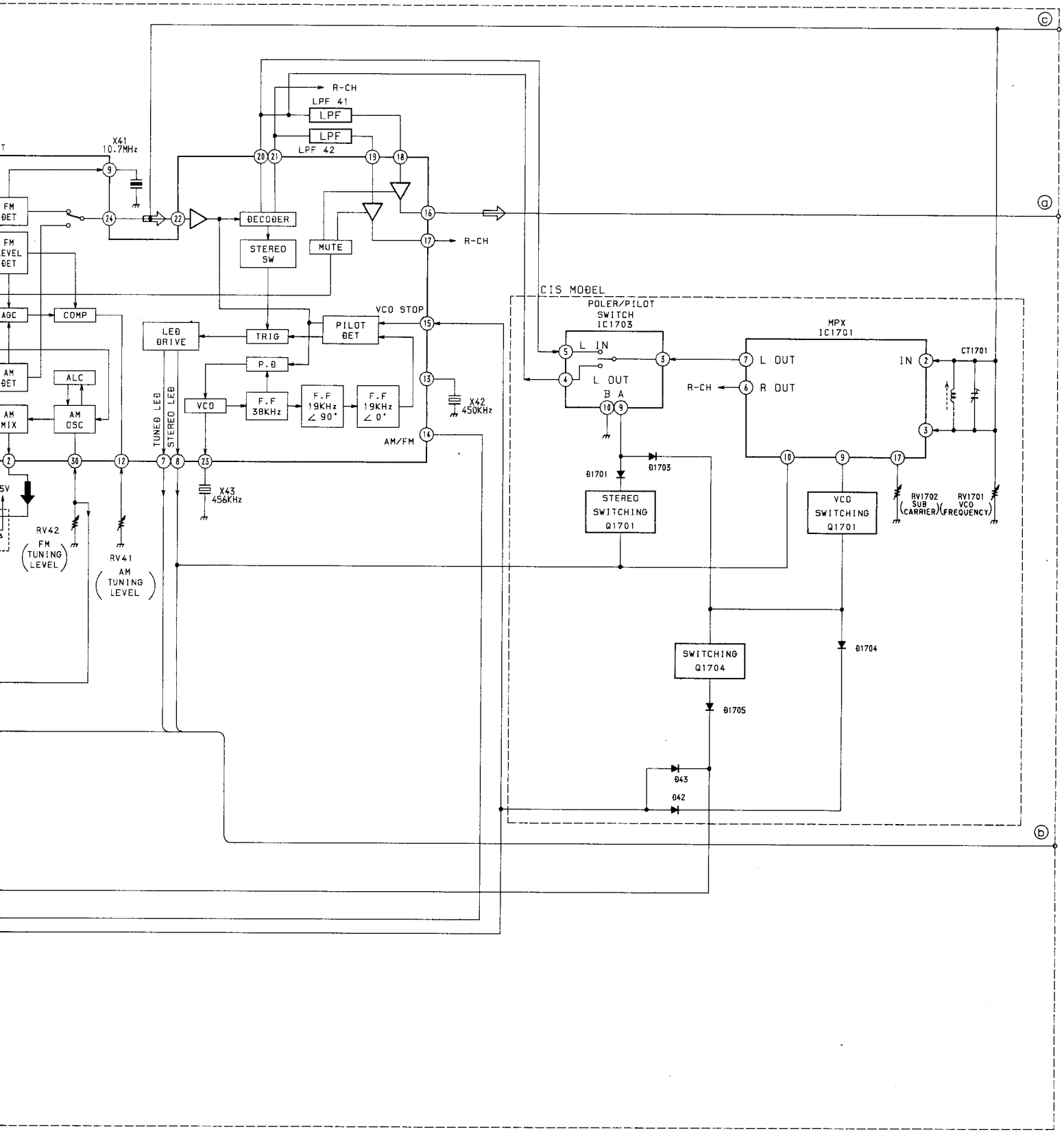
6-2. BLOCK DIAGRAM – MAIN SECTION (1) –

AEP, UK, G, IT, EE, CIS, E, EA, MY, SP, HK, JE, IA TW MODEL



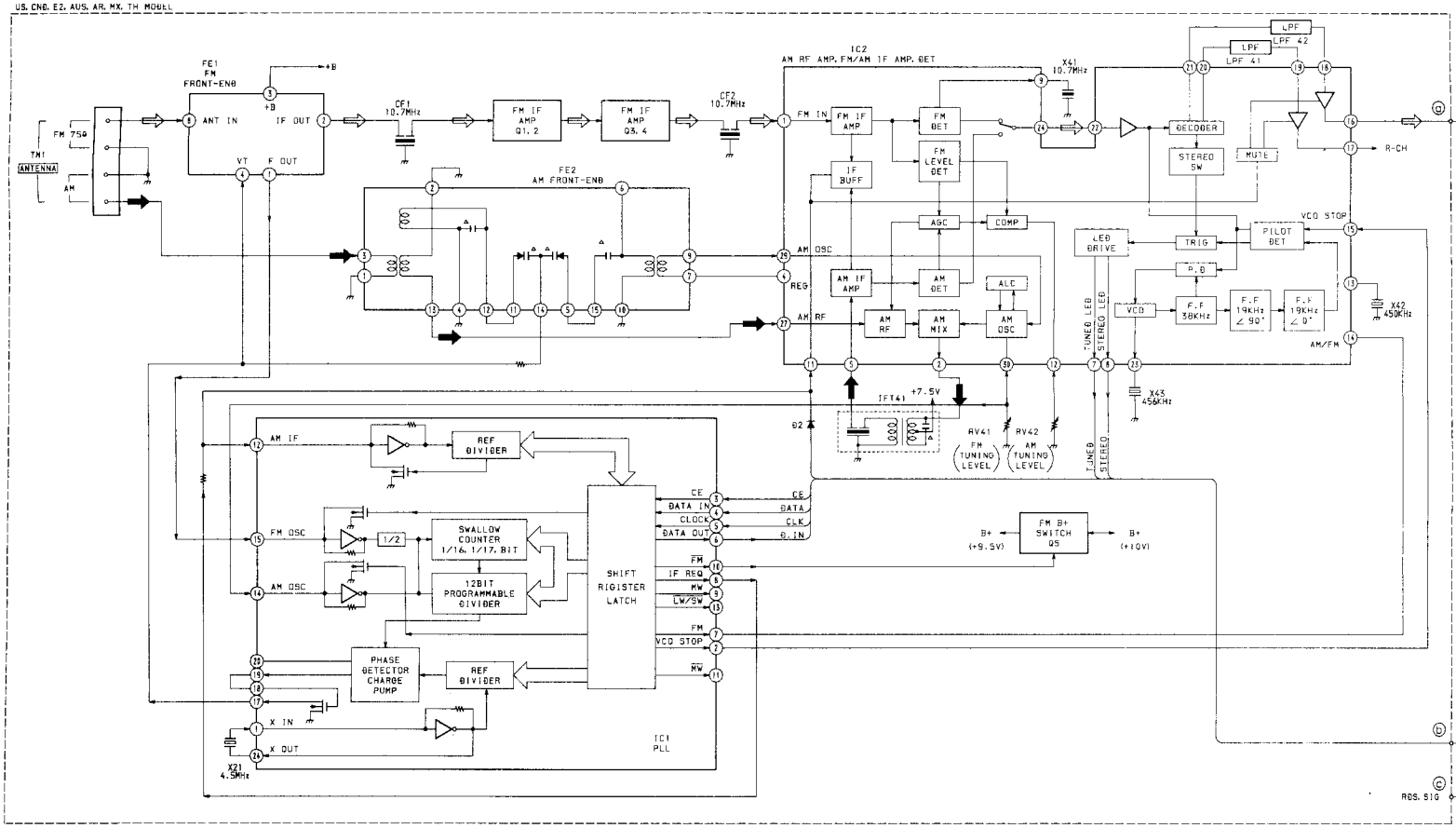

EXCEPT AEP, G, IT MODEL
AEP, G, IT MODEL
CF2
10.7MHz
FM IF
AMP
Q3, 4
CF3
10.7MHz
IC2
AM RF AMP, FM/AM IF AMP, DET
FM IN
FM IF
AMP
FM
DET
FM
LEVEL
DET
IF
BUFF
AGC
COMP
AM OSC
REG
AM IF
AMP
AM
DET
ALC
AM RF
AM
RF
AM
MIX
AM
OSC
+7.5V
IFT41
RV42
FM
TUNING
LEVEL
AEP, UK, G, IT, EE MODEL
D1
CV1
CV2
T1
T2
FE2
MW/LW FRONT-END
AM
OSC
Q10
EXCEPT G, IT MODEL
MW/SW
SWITCH
Q9
AM OSC
SWITCH
Q11
D41
REF
DIVIDER
SWALLOW
COUNTER
1/16, 1/17, BIT
1/2
12BIT
PROGRAMMABLE
DIVIDER
SHIFT
RIGISTER
LATCH
PHASE
DETECTOR
CHARGE
PUMP
REF
DIVIDER
IC1
PLL
CE
DATA IN
CLOCK
DATA OUT
FM
IF REQ
MW
LW/SW
FM
VCO STOP
MW
B+
(+9.8V)
B+
SWITCH
B+
(+9.9V)

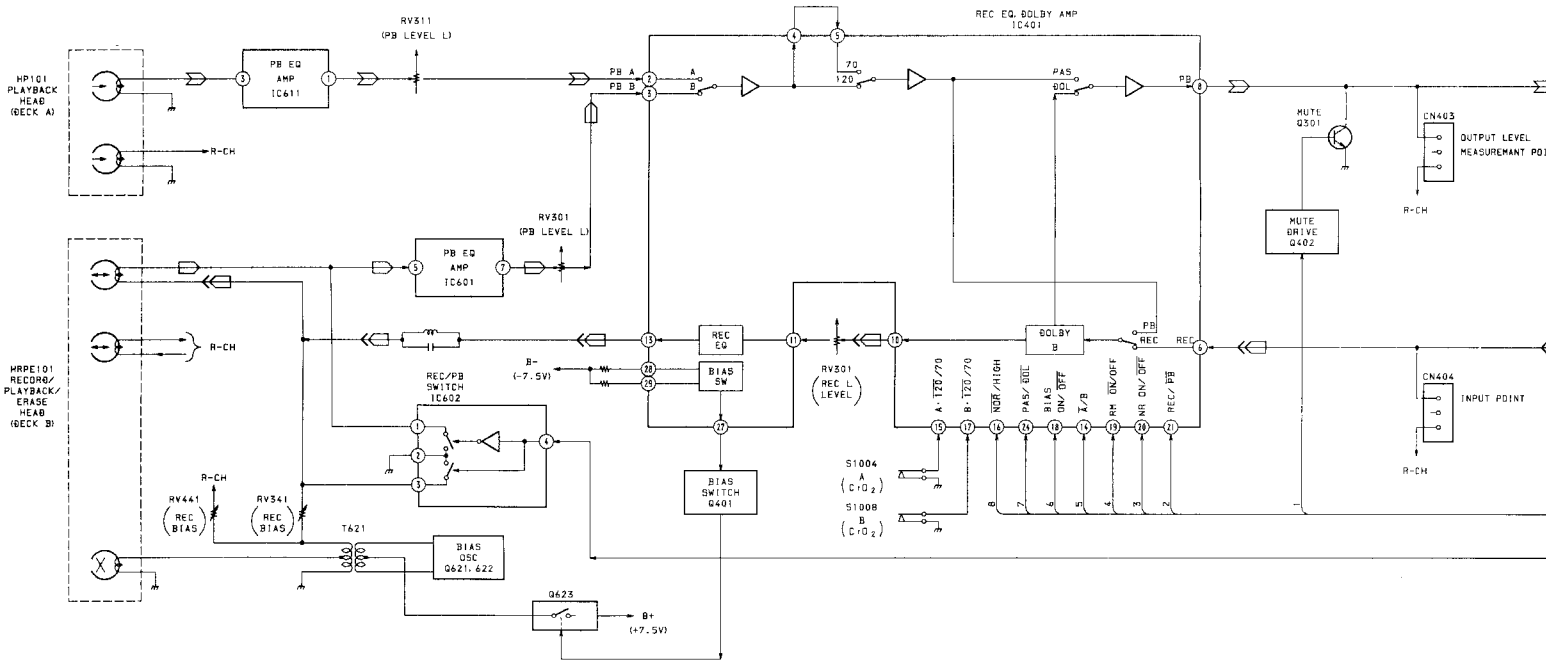

FM IF AMP Q3, 4
CF3 10.7MHz
IC2
AM RF AMP, FM/AM IF AMP, DET
X41 10.7MHz
FM IN
FM IF AMP
FM DET
FM LEVEL DET
IF BUFF
AM OSC Q10
AM OSC
REG
AM RF
AM IF AMP
AM DET
AM RF
AM MIX
AM OSC
ALC
AGC
COMP
EXCEPT G, IT MODEL
MW/SW SWITCH Q9
IFT41
+7.5V
RV42 FM TUNING LEVEL
RV41 AM TUNING LEVEL
D41
B+ (+9.8V)
B+ SWITCH
B+ (+9.9V)
R-CH
LPF 41
LPF
LPF
LPF 42
DECODER
STEREO SW
MUTE
R-CH
LED DRIVE
TUNED LED
STEREO LED
TRIG
PILOT DET
VCO STOP
P.D
VCO
F.F 38KHz
F.F 19KHz ∠ 90°
F.F 19KHz ∠ 0°
X42 450KHz
AM/FM
X43 456KHz
CIS MODEL
POLER/PILOT SWITCH IC1703
L IN
L OUT
B A
D1701
STEREO SWITCHING Q1701

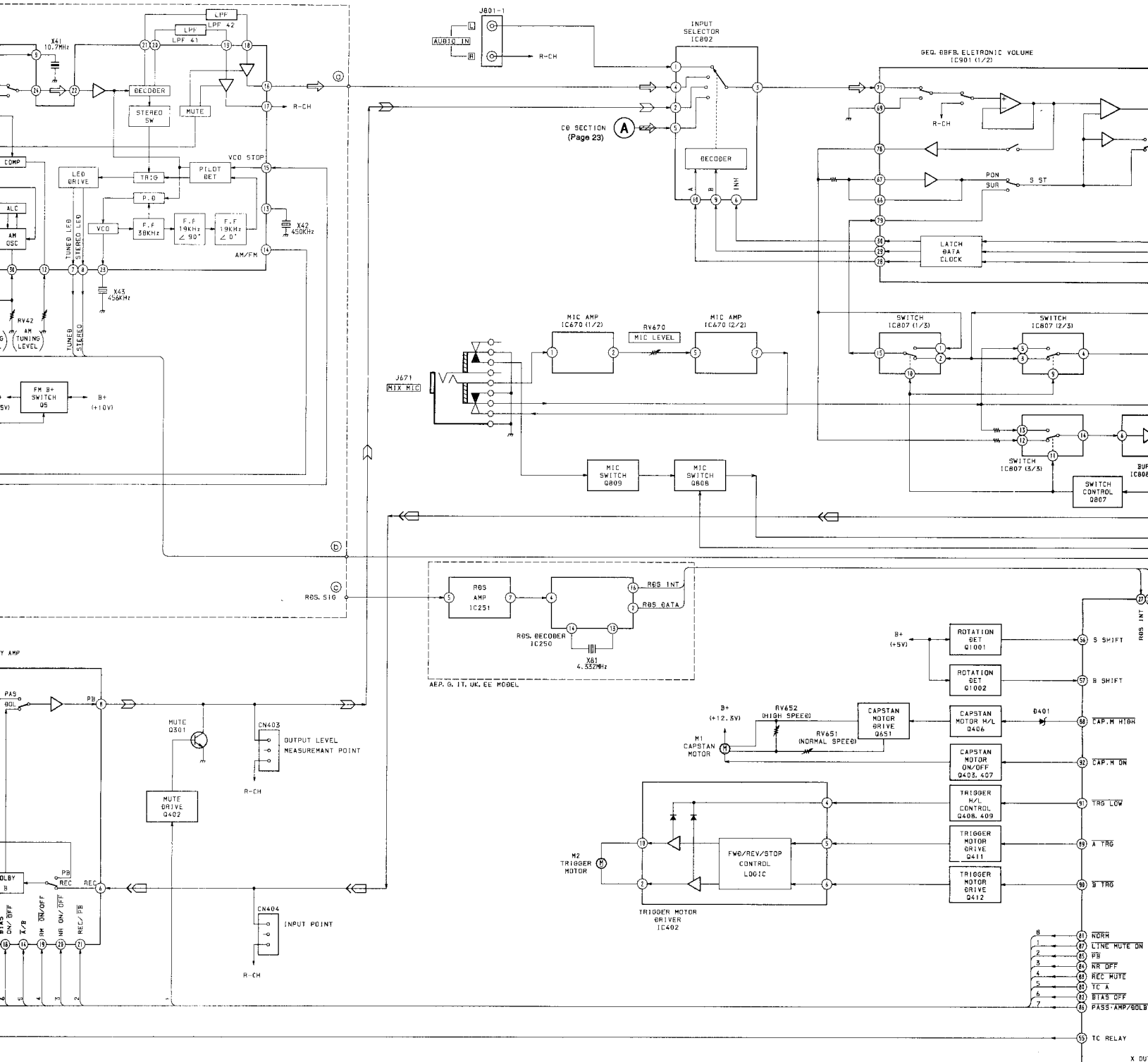

R-CH
LPF 41
LPF
LPF
LPF 42
X41
10.7MHz
DECODER
STEREO SW
MUTE
R-CH
VCO STOP
PILOT DET
TRIG
LED DRIVE
P.D
VCO
F.F 38KHz
F.F 19KHz ∠ 90°
F.F 19KHz ∠ 0°
X42 450KHz
AM/FM
TUNED LED
STEREO LED
X43 456KHz
AGC
COMP
ALC
AM OSC
AM MIX
FM DET
FM LEVEL DET
RV42 FM TUNING LEVEL
RV41 AM TUNING LEVEL
CIS MODEL
POLER/PILOT SWITCH IC1703
L IN
L OUT
B A
MPX IC1701
L OUT
R OUT
IN
CT1701
D1701
D1703
STEREO SWITCHING Q1701
VCO SWITCHING Q1701
RV1702 SUB (CARRIER)
RV1701 VCO (FREQUENCY)
SWITCHING Q1704
D1704
D1705
D43
D42

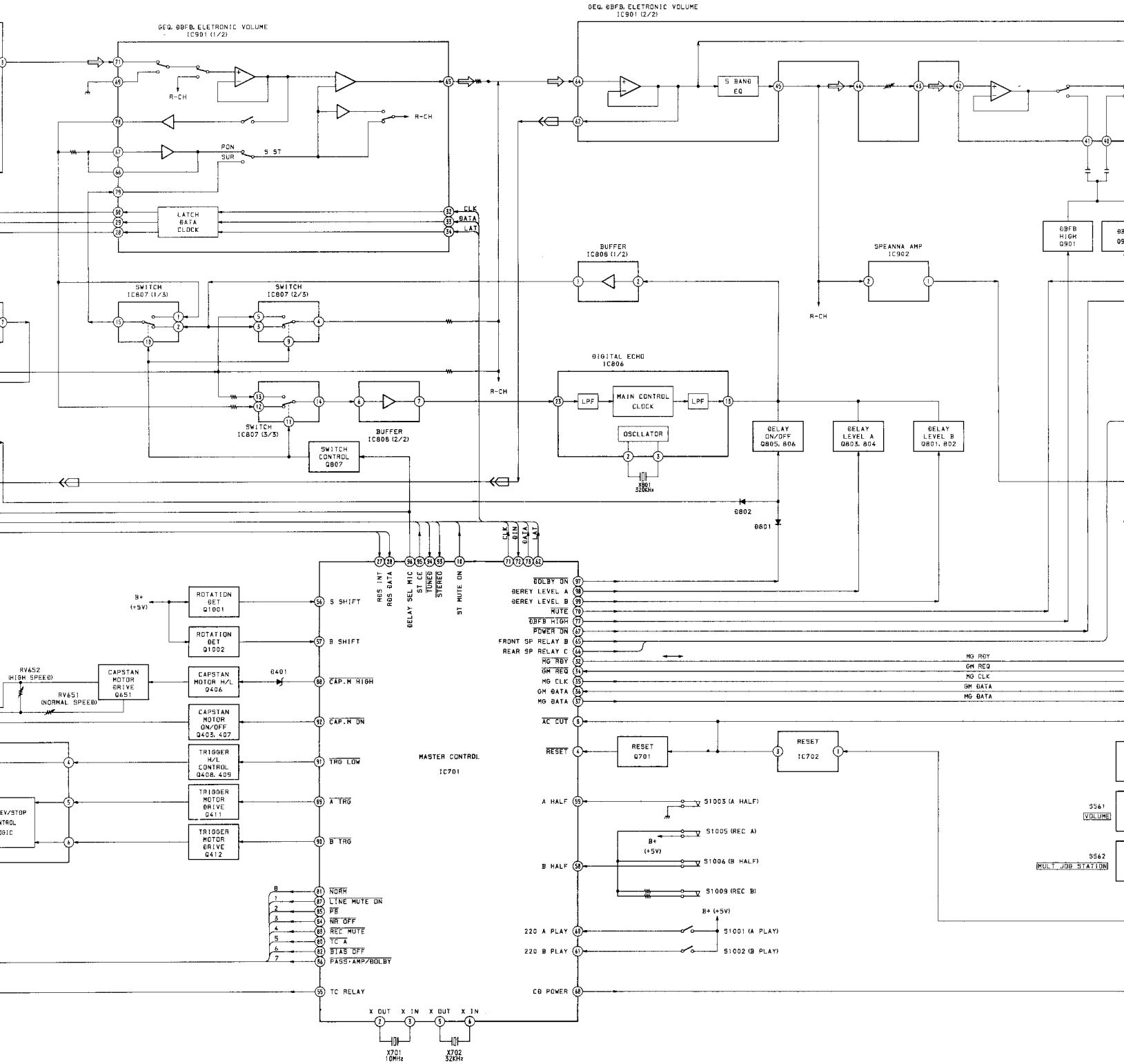
6-3. BLOCK DIAGRAM – MAIN SECTION (2) –

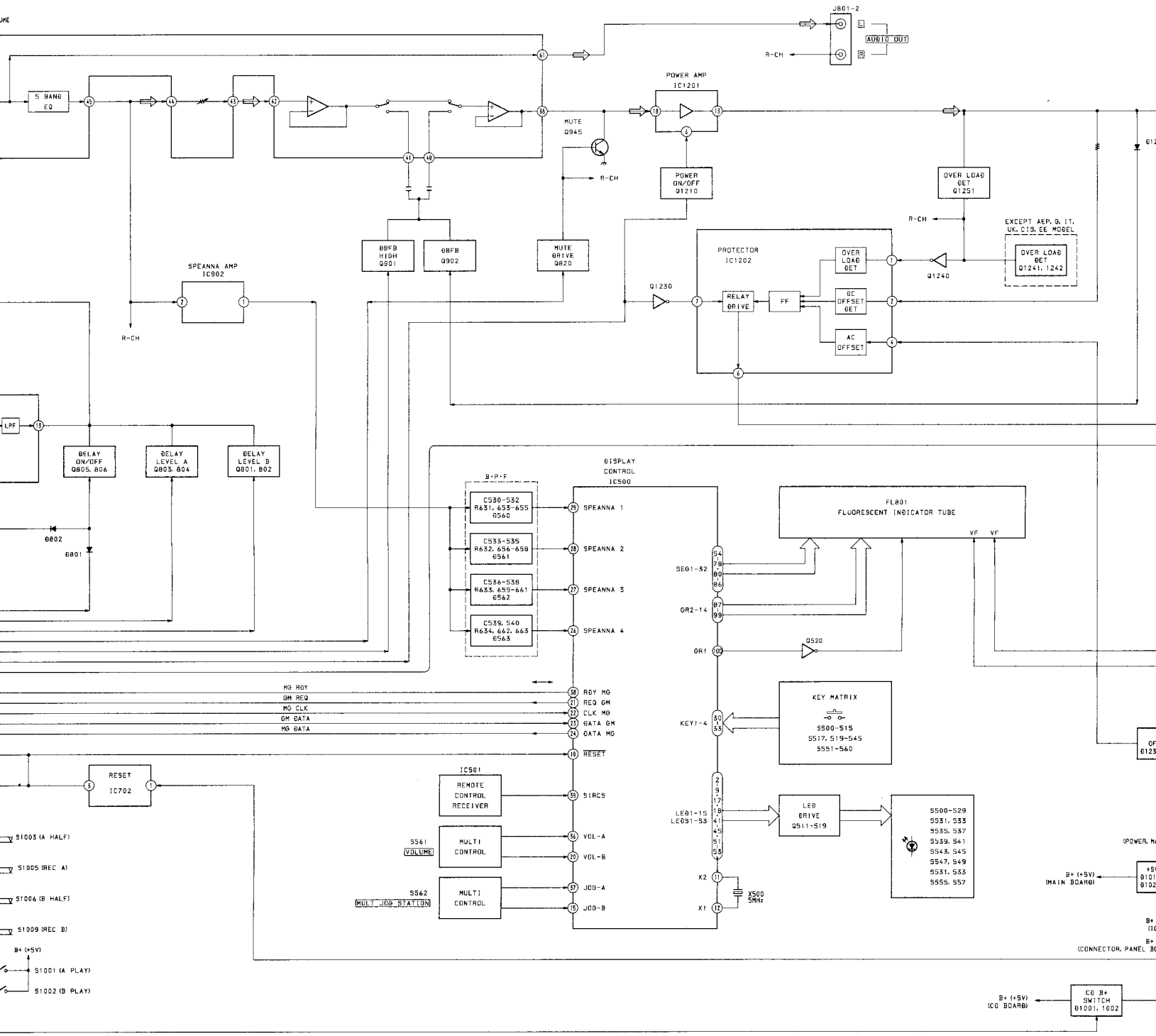
US, CNB, E2, AUS, AR, MX, TH MODEL

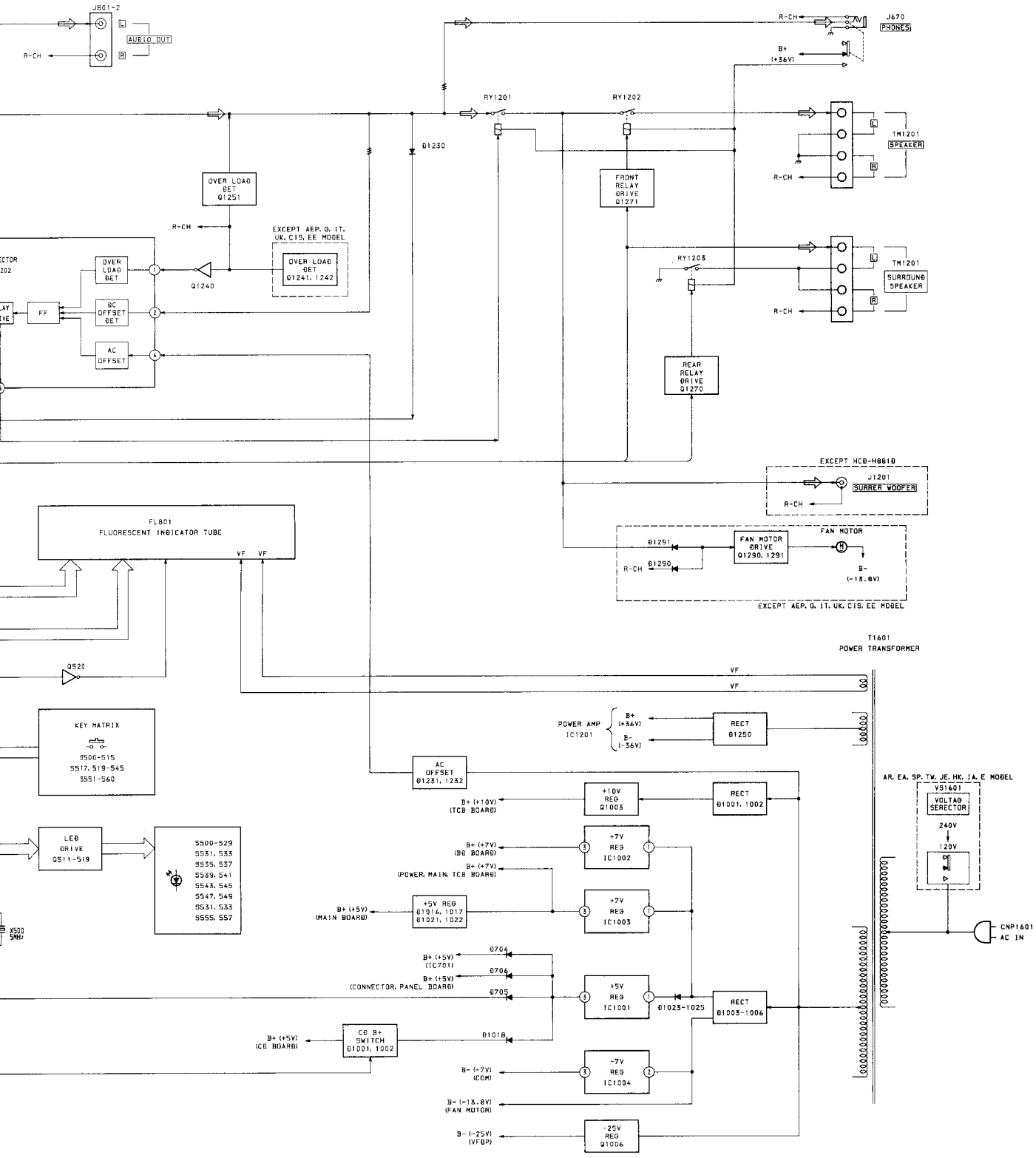


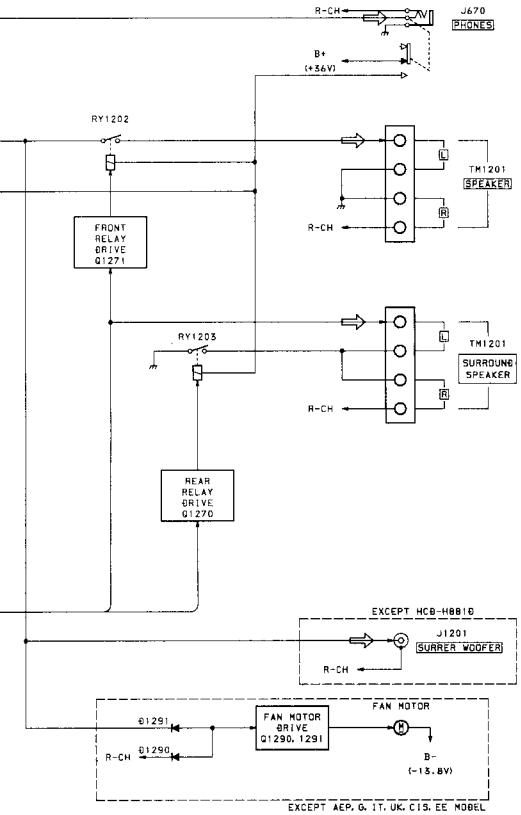


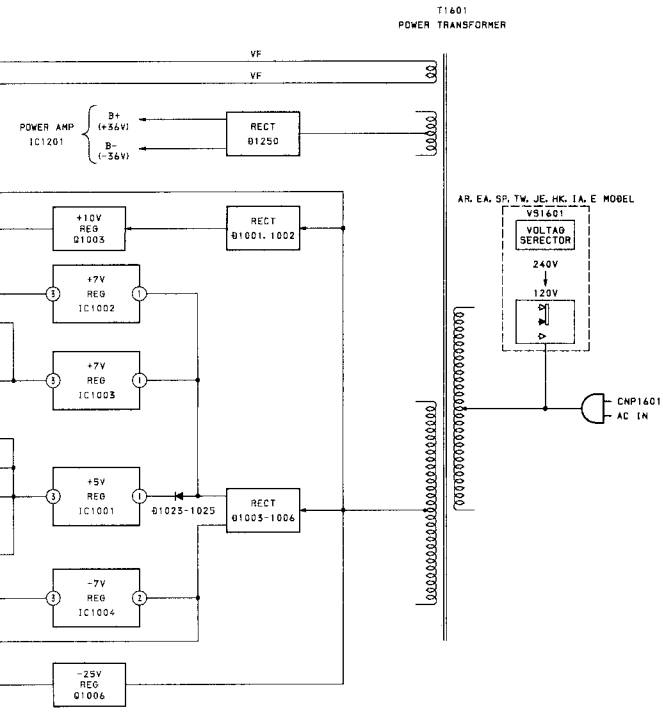

LPF
LPF 42
LPF 41
X41
10.7MHz
DECODER
STEREO SW
MUTE
R-CH
VCO STOP
LED DRIVE
TRIG
PILOT DET
P.D
VCO
F.F 38KHz
F.F 19KHz ∠ 90°
F.F 19KHz ∠ 0°
X42 450KHz
AM/FM
X43 456KHz
TUNED LED
STEREO LED
TUNED
STEREO
RV42 AM TUNING LEVEL
FM B+ SWITCH Q5
B+ (+10V)
J801-1
AUDIO IN
L
H
R-CH
INPUT SELECTOR IC802
C0 SECTION (Page 23)
DECODER
A
B
INH
GEQ. 8BFB. ELETRONIC VOLUME IC901 (1/2)
R-CH
PON
SUB
S ST
LATCH
DATA
CLOCK
MIC AMP IC670 (1/2)
RV670
MIC LEVEL
MIC AMP IC670 (2/2)
J671
MIX MIC
MIC SWITCH Q809
MIC SWITCH Q808
SWITCH IC807 (1/3)
SWITCH IC807 (2/3)
SWITCH IC807 (3/3)
SWITCH CONTROL Q807
R0S. SIG
R0S AMP IC251
R0S INT
R0S DATA
R0S. DECODER IC250
X61 4.332MHz
AEP, G, IT, UK, EE MODEL
B+ (+5V)
ROTATION DET Q1001
ROTATION DET Q1002
S SHIFT
B SHIFT
B+ (+12.3V)
RV652 (HIGH SPEED)
RV651 (NORMAL SPEED)
M1 CAPSTAN MOTOR
CAPSTAN MOTOR DRIVE Q651
CAPSTAN MOTOR H/L Q406
D401
CAP.M HIGH
CAPSTAN MOTOR ON/OFF Q403, 407
CAP.M ON
TRIGGER H/L CONTROL Q408, 409
TRG LOW
TRIGGER MOTOR DRIVE Q411
A TRG
TRIGGER MOTOR DRIVE Q412
B TRG
M2 TRIGGER MOTOR
FWD/REV/STOP CONTROL LOGIC
TRIGGER MOTOR DRIVER IC402
NORM
LINE MUTE ON
PB
NR OFF
REC MUTE
TC A
BIAS OFF
PASS-AMP/GOLB
TC RELAY
MUTE Q301
MUTE DRIVE Q402
CN403
OUTPUT LEVEL MEASUREMANT POINT
R-CH
CN404
INPUT POINT
R-CH
PB
REC
BIAS ON/OFF
X/B
NR ON/OFF
REC/PB


GEQ. 8BFB. ELETRONIC VOLUME IC901 (1/2)
GEQ. 8BFB. ELETRONIC VOLUME IC901 (2/2)
R-CH
PON
SUR
S ST
LATCH DATA CLOCK
CLK
DATA
LAT
S BAND EQ
8BFB HIGH Q901
BUFFER IC808 (1/2)
SPEANNA AMP IC902
SWITCH IC807 (1/3)
SWITCH IC807 (2/3)
SWITCH IC807 (3/3)
BUFFER IC808 (2/2)
SWITCH CONTROL Q807
DIGITAL ECHO IC806
LPF
MAIN CONTROL CLOCK
OSCILLATOR
X801 520KHz
RELAY ON/OFF Q805, 806
RELAY LEVEL A Q803, 804
RELAY LEVEL B Q801, 802
D802
D801
RDS INT
RDS DATA
DELAY SEL MIC
ST CE
TUNED
STEREO
ST MUTE ON
DOLBY ON
DEREY LEVEL A
DEREY LEVEL B
MUTE
8BFB HIGH
POWER ON
FRONT SP RELAY B
REAR SP RELAY C
MG RDY
GM REQ
MG CLK
GM DATA
MG DATA
AC CUT
RESET
B+ (+5V)
ROTATION DET Q1001
ROTATION DET Q1002
S SHIFT
B SHIFT
CAPSTAN MOTOR DRIVE Q651
CAPSTAN MOTOR H/L Q406
CAPSTAN MOTOR ON/OFF Q403, 407
TRIGGER H/L CONTROL Q408, 409
TRIGGER MOTOR DRIVE Q411
TRIGGER MOTOR DRIVE Q412
RV652 (HIGH SPEED)
RV651 (NORMAL SPEED)
D401
CAP.M HIGH
CAP.M ON
TRG LOW
A TRG
B TRG
MASTER CONTROL IC701
RESET Q701
RESET IC702
A HALF
B HALF
S1003 (A HALF)
S1005 (REC A)
S1006 (B HALF)
S1009 (REC B)
S1001 (A PLAY)
S1002 (B PLAY)
220 A PLAY
220 B PLAY
CD POWER
NORM
LINE MUTE ON
PB
NR OFF
REC MUTE
TC A
BIAS OFF
PASS-AMP/DOLBY
TC RELAY
X OUT
X IN
X701 10MHz
X702 32KHz
S561 VOLUME
S562 MULTI JOG STATION

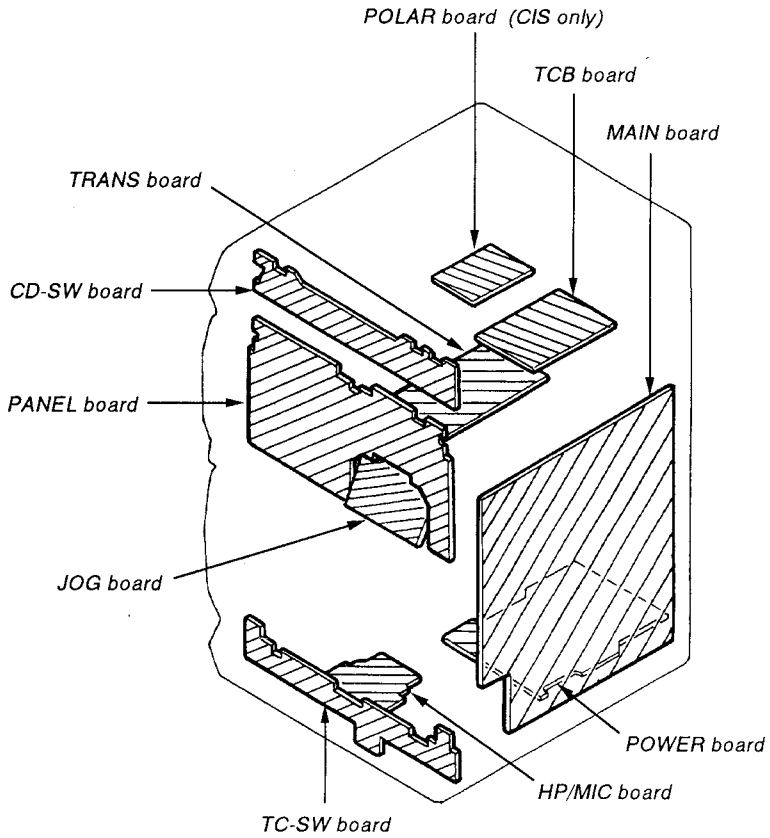

J801-2
L
AUDIO OUT
R
R-CH
POWER AMP
IC1201
5 BAND
EQ
MUTE
Q945
R-CH
POWER
ON/OFF
Q1210
OVER LOAD
DET
Q1251
R-CH
EXCEPT AEP, G, IT,
UK, C13, EE MODEL
OVER LOAD
DET
Q1241, 1242
PROTECTOR
IC1202
OVER
LOAD
DET
Q1240
Q1230
RELAY
DRIVE
FF
DC
OFFSET
DET
AC
OFFSET
BBFB
HIGH
Q901
BBFB
Q902
MUTE
DRIVE
Q820
SPEANNA AMP
IC902
R-CH
LPF
DELAY
ON/OFF
Q805, 806
DELAY
LEVEL A
Q803, 804
DELAY
LEVEL B
Q801, 802
D802
D801
B.P.F
C530-532
R631, 653-655
D560
C533-535
R632, 656-658
D561
C536-538
R633, 659-661
D562
C539, 540
R634, 662, 663
D563
DISPLAY
CONTROL
IC500
SPEANNA 1
SPEANNA 2
SPEANNA 3
SPEANNA 4
FL801
FLUORESCENT INDICATOR TUBE
VF
VF
SEG1-32
GR2-14
GR1
Q520
MG RDY
GM REQ
MG CLK
GM DATA
MG DATA
RDY MG
REQ GM
CLK MG
DATA GM
DATA MG
RESET
KEY1-4
KEY MATRIX
S500-515
S517, 519-545
S551-560
RESET
IC702
IC501
REMOTE
CONTROL
RECEIVER
SIRCS
S561
VOLUME
MULTI
CONTROL
VOL-A
VOL-B
S562
MULT JOG STATION
MULTI
CONTROL
JOG-A
JOG-B
LED1-15
LED51-53
LED
DRIVE
Q511-519
S500-529
S531, 533
S555, 557
S539, 541
S543, 545
S547, 549
S531, 533
S555, 557
X2
X1
X500
5MHz
S1003 (A HALF)
S1005 (REC A)
S1006 (B HALF)
S1009 (REC B)
B+ (+5V)
S1001 (A PLAY)
S1002 (B PLAY)
B+ (+5V)
(MAIN BOARD)
B+ (+5V)
(CD BOARD)
CD B+
SWITCH
D1001, 1002

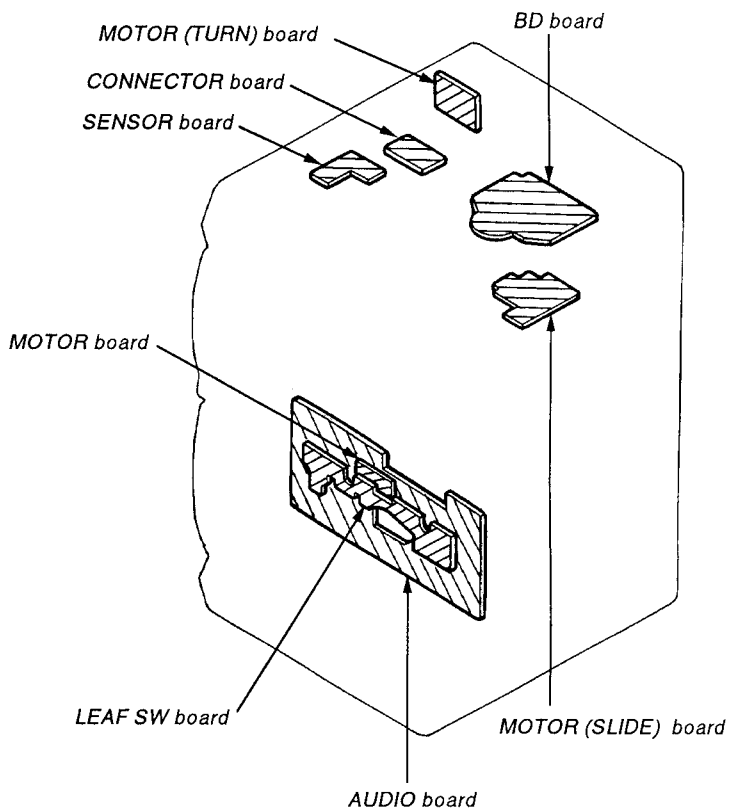

J801-2
L
AUDIO OUT
R
R-CH
R-CH
J670
PHONES
B+
(+36V)
RY1201
RY1202
D1230
TM1201
SPEAKER
L
R
R-CH
OVER LOAD DET Q1251
FRONT RELAY DRIVE Q1271
R-CH
EXCEPT AEP, G, IT, UK, CIS, EE MODEL
OVER LOAD DET
Q1241, 1242
Q1240
OVER LOAD DET
FF
DC OFFSET DET
AC OFFSET
RY1203
TM1201
SURROUND SPEAKER
L
R
R-CH
REAR RELAY DRIVE Q1270
EXCEPT HCB-H8818
J1201
SURRER WOOFER
R-CH
FL801
FLUORESCENT INDICATOR TUBE
VF
VF
D1291
D1290
R-CH
FAN MOTOR DRIVE Q1290, 1291
FAN MOTOR
M
B-
(-13.8V)
EXCEPT AEP, G, IT, UK, CIS, EE MODEL
T1601
POWER TRANSFORMER
Q520
VF
VF
KEY MATRIX
S500-515
S517, 519-545
S551-560
POWER AMP IC1201
B+
(+56V)
B-
(-36V)
RECT D1250
AC OFFSET D1231, 1232
AR, EA, SP, TW, JE, HK, IA, E MODEL
VS1601
VOLTAG SERECTOR
240V
120V
CNP1601
AC IN
B+ (+10V)
(TCB BOARD)
+10V REG Q1003
RECT D1001, 1002
LED DRIVE Q511-519
S500-529
S531, 533
S535, 537
S539, 541
S543, 545
S547, 549
S551, 533
S555, 557
X500
5MHz
B+ (+7V)
(BB BOARD)
+7V REG IC1002
B+ (+7V)
(POWER, MAIN, TCB BOARD)
B+ (+5V)
(MAIN BOARD)
+5V REG D1016, 1017 D1021, 1022
+7V REG IC1003
D704
B+ (+5V)
(IC701)
D706
B+ (+5V)
(CONNECTOR, PANEL BOARD)
D705
+5V REG IC1001
D1023-1025
RECT D1003-1006
CD B+ SWITCH D1001, 1002
B+ (+5V)
(CD BOARD)
D1018
B- (-7V)
(COM)
-7V REG IC1004
B- (-13.8V)
(FAN MOTOR)
B- (-25V)
(VFBP)
-25V REG Q1006





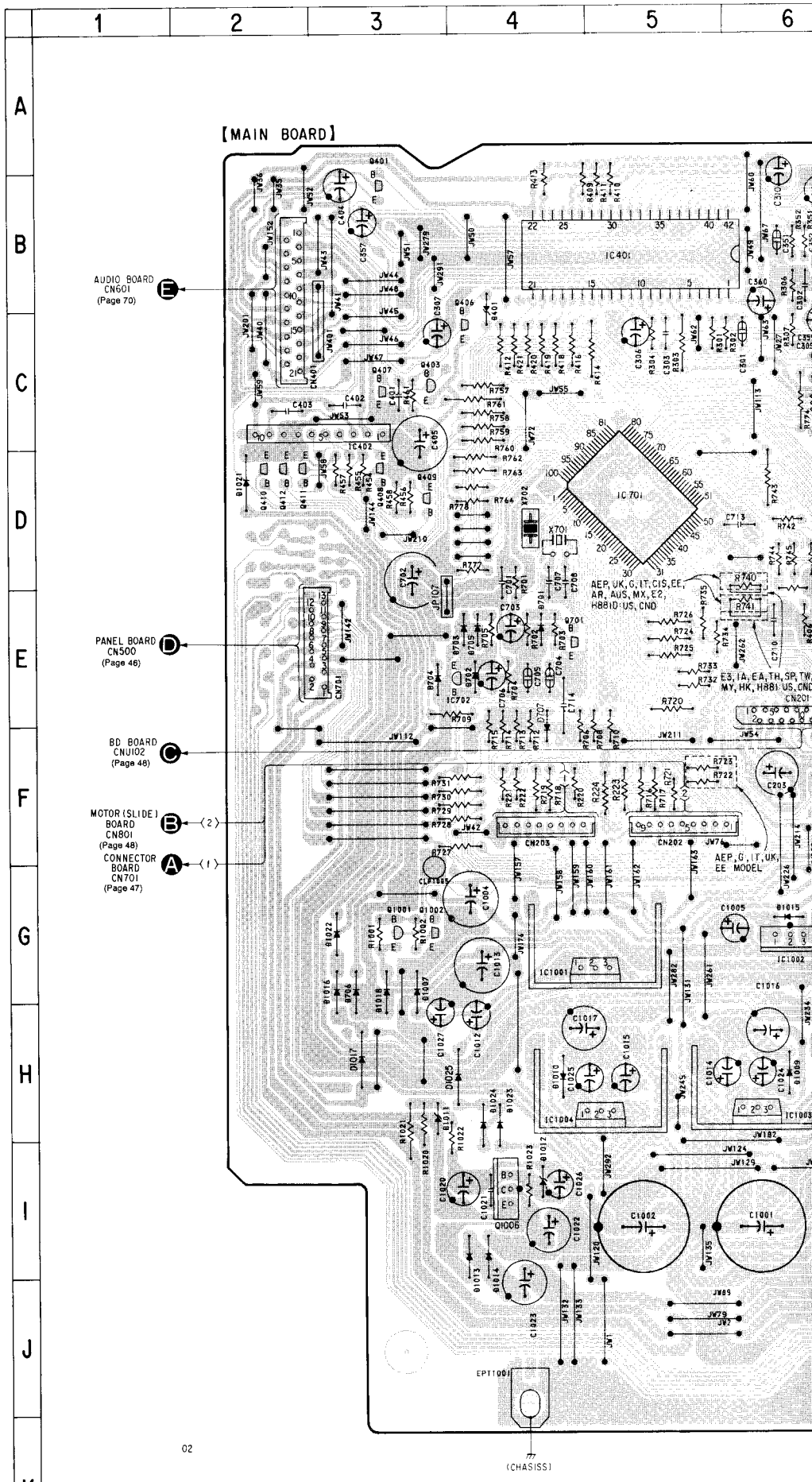
6-4. CIRCUIT BOARD LOCATION





• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	F - 7	IC807	E - 10
D202	E - 7	IC808	F - 9
D251	B - 9	IC901	F - 12
D401	B - 4	IC902	H - 12
D701	E - 4	IC1001	G - 4
D702	E - 4	IC1002	G - 6
D703	E - 4	IC1003	H - 6
D704	E - 3	IC1004	H - 4
D705	E - 4		
D706	G - 3		
		Q301	B - 7
D707	E - 4	Q351	B - 7
D801	G - 8	Q401	B - 3
D802	G - 8	Q402	C - 6
D901	G - 10	Q403	C - 3
D902	H - 11		
		Q406	C - 4
D1001	I - 8	Q407	C - 3
D1002	I - 8	Q408	D - 3
D1003	I - 8	Q409	D - 3
D1004	H - 8	Q410	D - 2
D1006	H - 8		
		Q411	D - 2
D1007	G - 3	Q412	D - 2
D1008	H - 8	Q701	E - 4
D1009	H - 6	Q801	G - 8
D1010	H - 4	Q802	G - 8
D1011	H - 3		
		Q803	G - 9
D1012	I - 4	Q804	G - 8
D1013	I - 3	Q805	G - 9
D1014	I - 3	Q806	G - 7
D1016	G - 3	Q807	E - 9
D1017	H - 3		
		Q808	F - 8
D1018	G - 3	Q809	G - 8
D1021	D - 2	Q820	H - 9
D1022	G - 3	Q901	H - 12
D1023	H - 4	Q902	H - 11
D1024	H - 4		
		Q951	G - 10
D1025	H - 4	Q952	G - 10
		Q953	I - 9
		Q954	I - 9
IC201	B - 13	Q1001	G - 3
IC250	B - 9		
IC251	B - 10	Q1002	G - 3
IC401	B - 5	Q1003	H - 7
IC402	C - 3	Q1006	I - 4
		Q1290	J - 11
IC701	D - 5	Q1291	J - 11
IC802	C - 12		
IC806	H - 9		

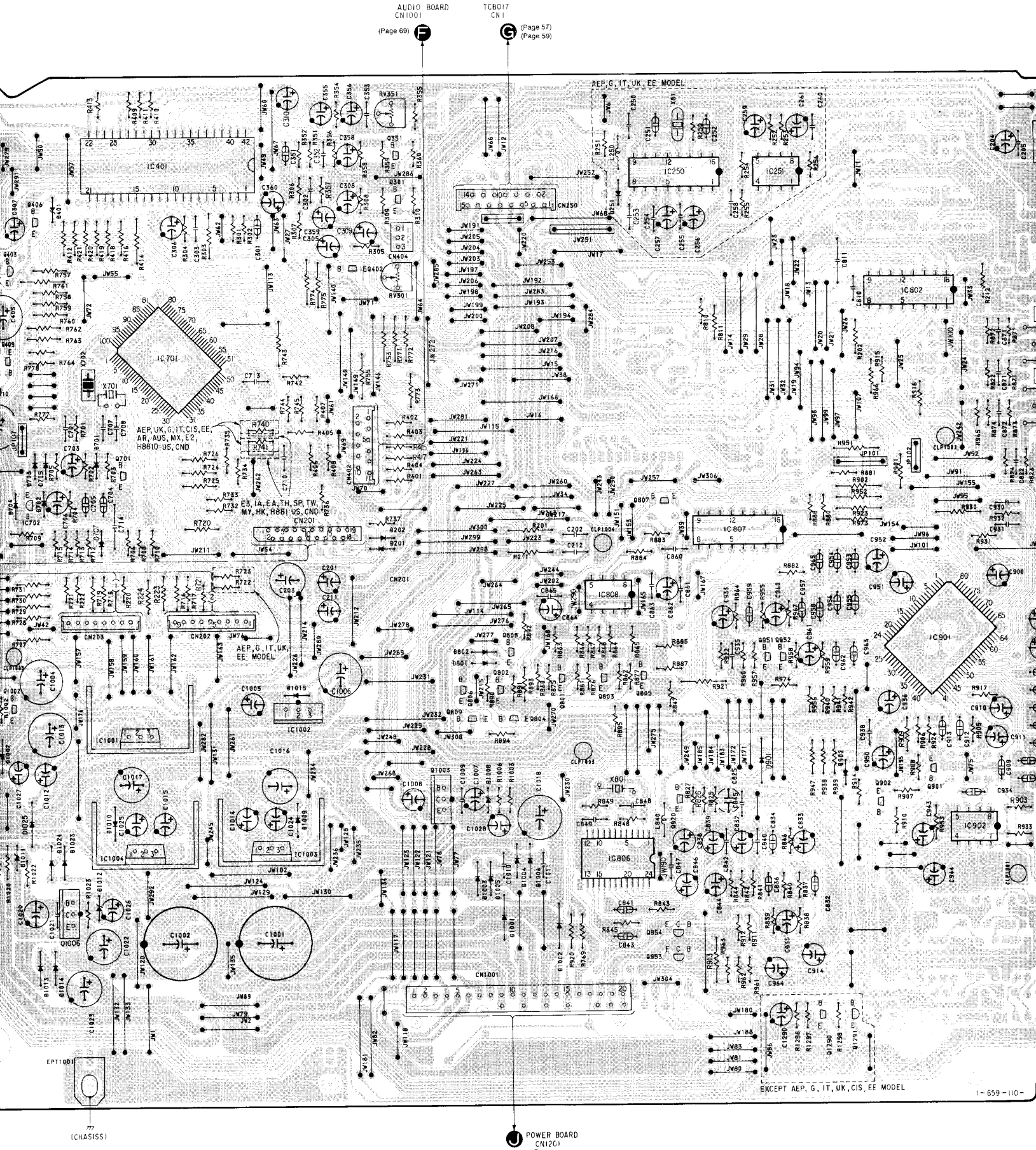

【MAIN BOARD】
AUDIO BOARD CN601 (Page 70)
PANEL BOARD CN500 (Page 46)
BD BOARD CNU102 (Page 48)
MOTOR (SLIDE) BOARD CN801 (Page 48)
CONNECTOR BOARD CN701 (Page 47)
AEP, UK, G, IT, CIS, EE, AR, AUS, MX, E2, H881D: US, CND
E3, IA, EA, TH, SP, TW, MY, HK, H881 US, CND
AEP, G, IT, UK, EE MODEL
(CHASISS)

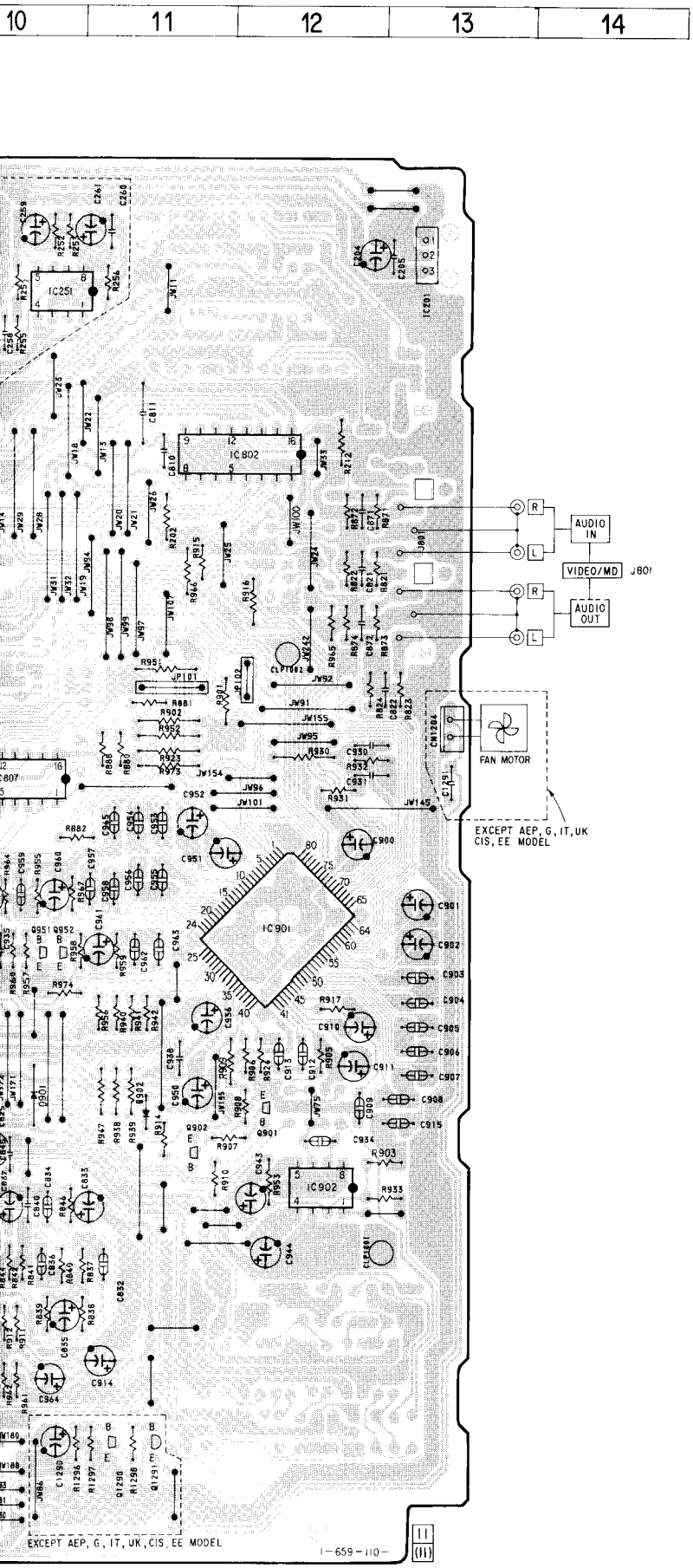
Note:

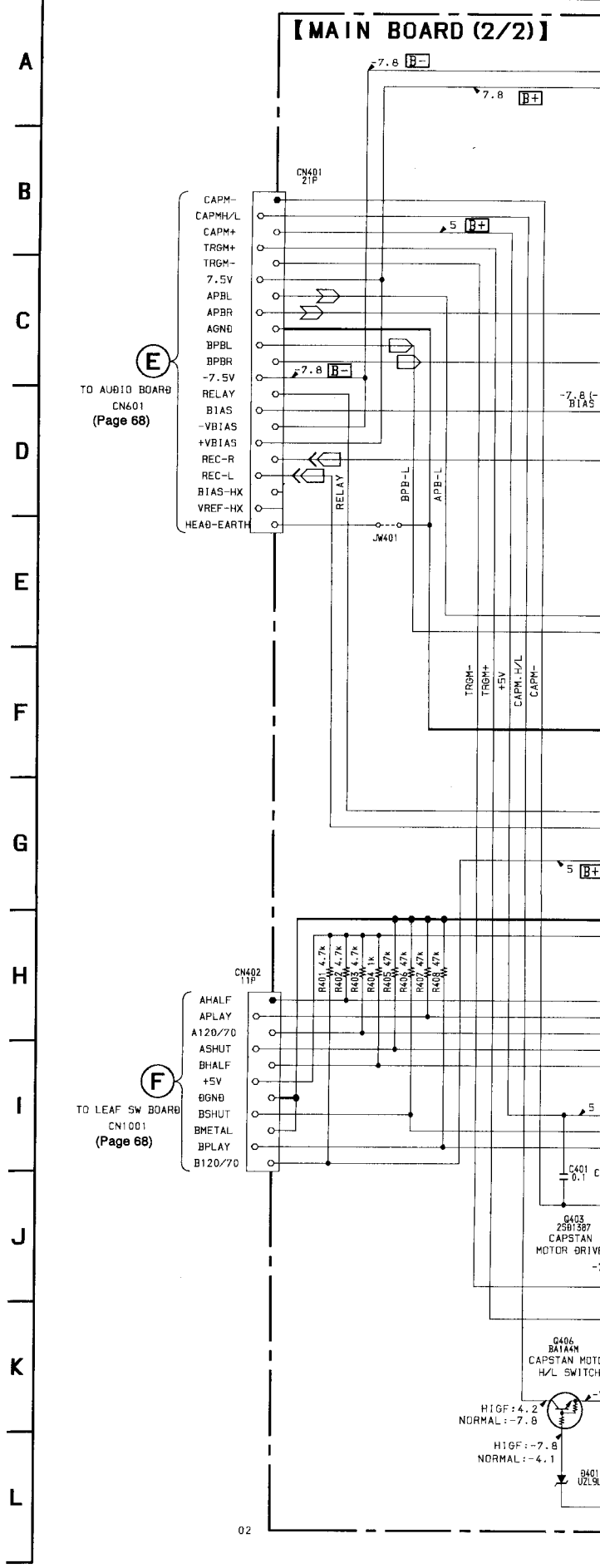
- O— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation

CND	: Canadian	HK	: Hong Kong
AUS	: Australian	JE	: Tourist
AR	: Argentine	IA	: Indonesia
MX	: Mexican	G	: German
TH	: Thailand	IT	: Italian
EA	: Saudi Arabia	EE	: East European
MY	: Malaysia	TW	: Taiwan
SP	: Singapore		

4	5	6	7	8	9	10	11	12




10
11
12
13
14
IC251
IC802
IC901
IC902
AUDIO IN
VIDEO/MD
AUDIO OUT
J801
FAN MOTOR
CN1204
EXCEPT AEP, G, IT, UK
CIS, EE MODEL
EXCEPT AEP, G, IT, UK, CIS, EE MODEL
1-659-110-
11
(11)


【MAIN BOARD (2/2)】
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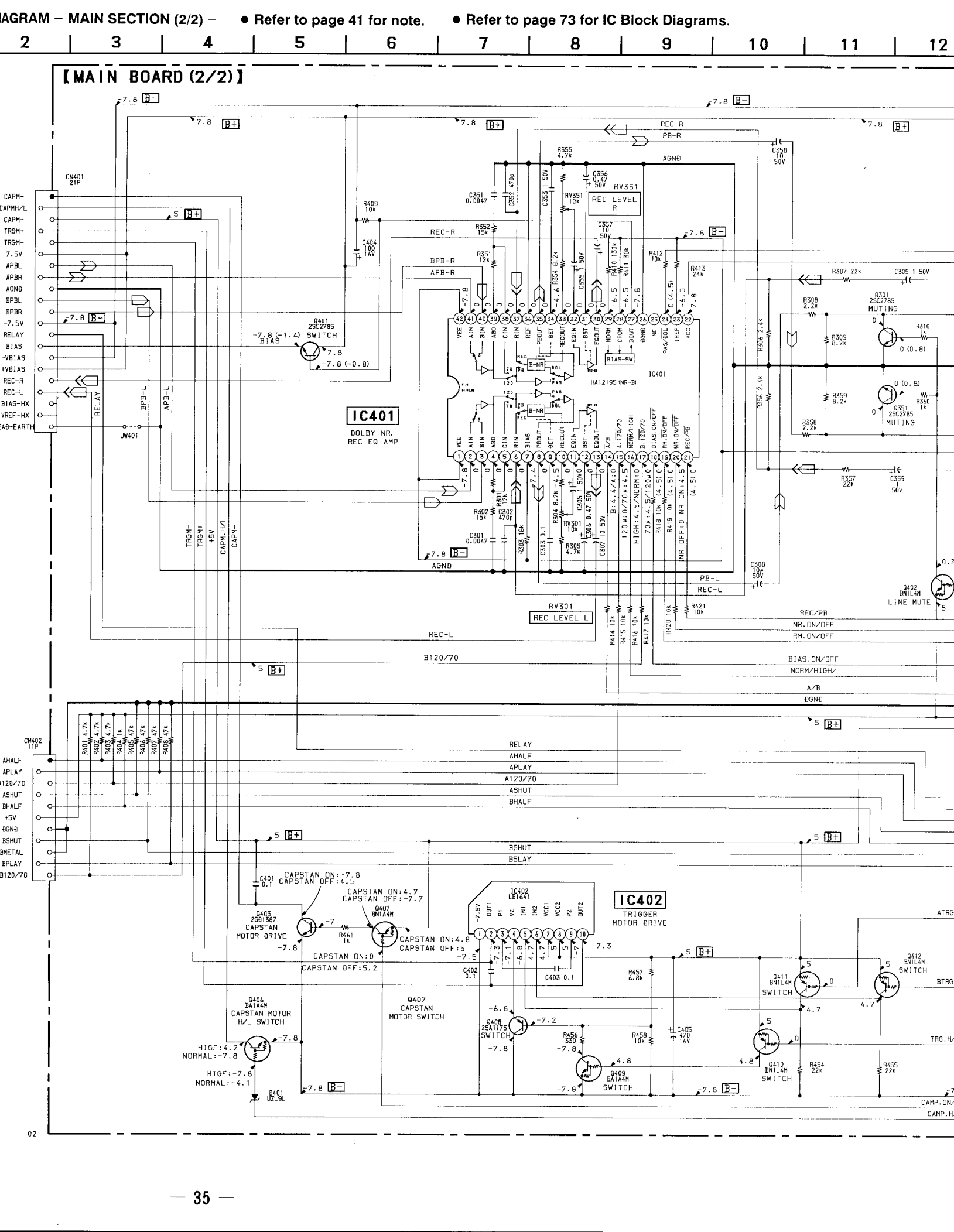
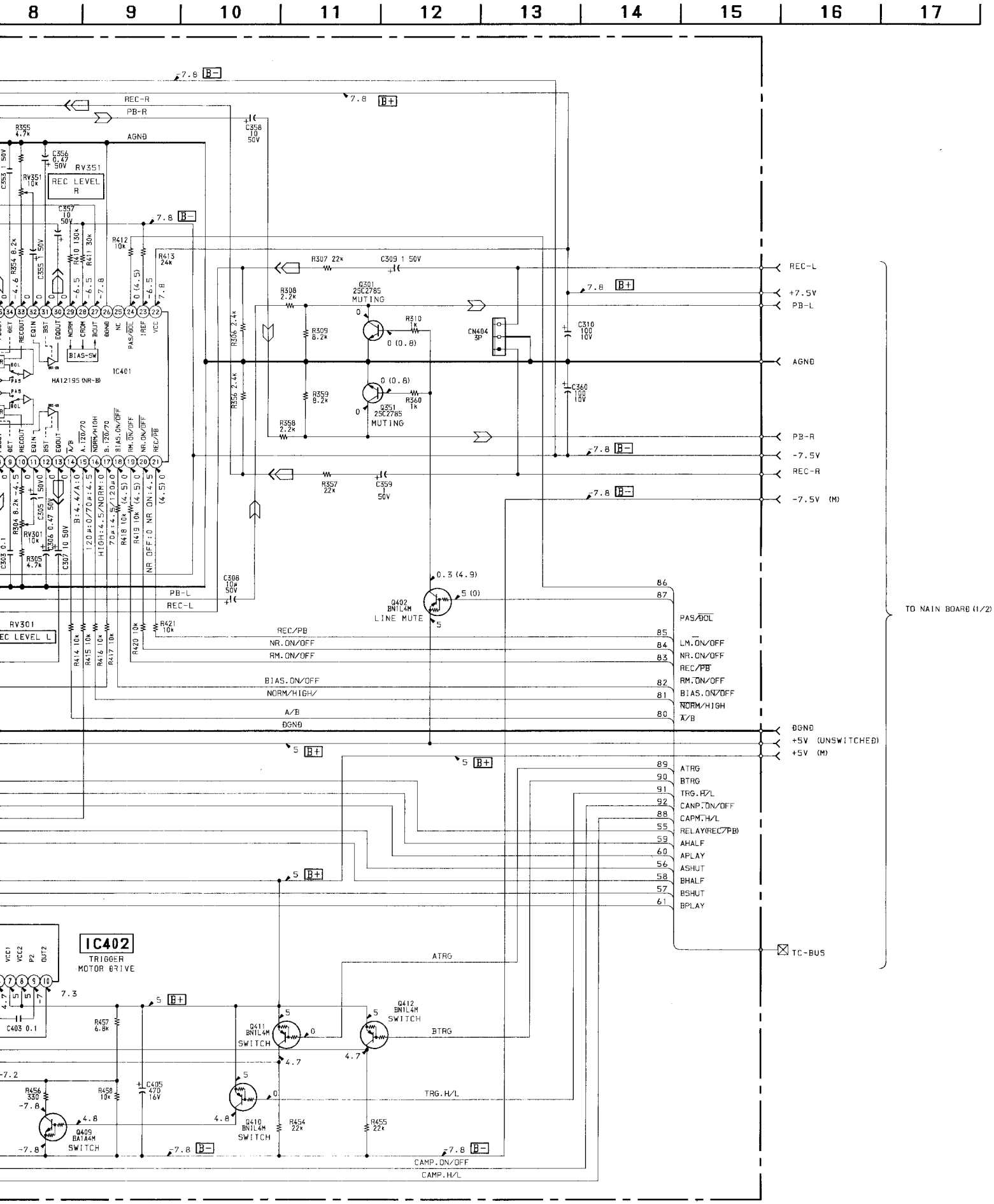
A
B
C
D
E
F
G
H
I
J
K
L
CN401
21P
CAPM-
CAPMH/L
CAPM+
TRGM+
TRGM-
7.5V
APBL
APBR
AGND
BPBL
BPBR
-7.5V
RELAY
BIAS
-VBIAS
+VBIAS
REC-R
REC-L
BIAS-HX
VREF-HX
HEAD-EARTH
E
TO AUDIO BOARD
CN601
(Page 68)
JW401
RELAY
BPB-L
APB-L
TRGM-
TRGM+
+5V
CAPM.H/L
CAPM-
7.8 B-
7.8 B+
5 B+
CN402
11P
AHALF
APLAY
A120/70
ASHUT
BHALF
+5V
BGND
BSHUT
BMETAL
BPLAY
B120/70
F
TO LEAF SW BOARD
CN1001
(Page 68)
R401 4.7k
R402 4.7k
R403 4.7k
R404 1k
R405 47k
R406 47k
R407 47k
R408 47k
C401 0.1
G403
2501387
CAPSTAN
MOTOR DRIV
Q404
BA1A4M
CAPSTAN MOTO
H/L SWITCH
HIGH:4.2
NORMAL:-7.8
HIGH:-7.8
NORMAL:-4.1
02

2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

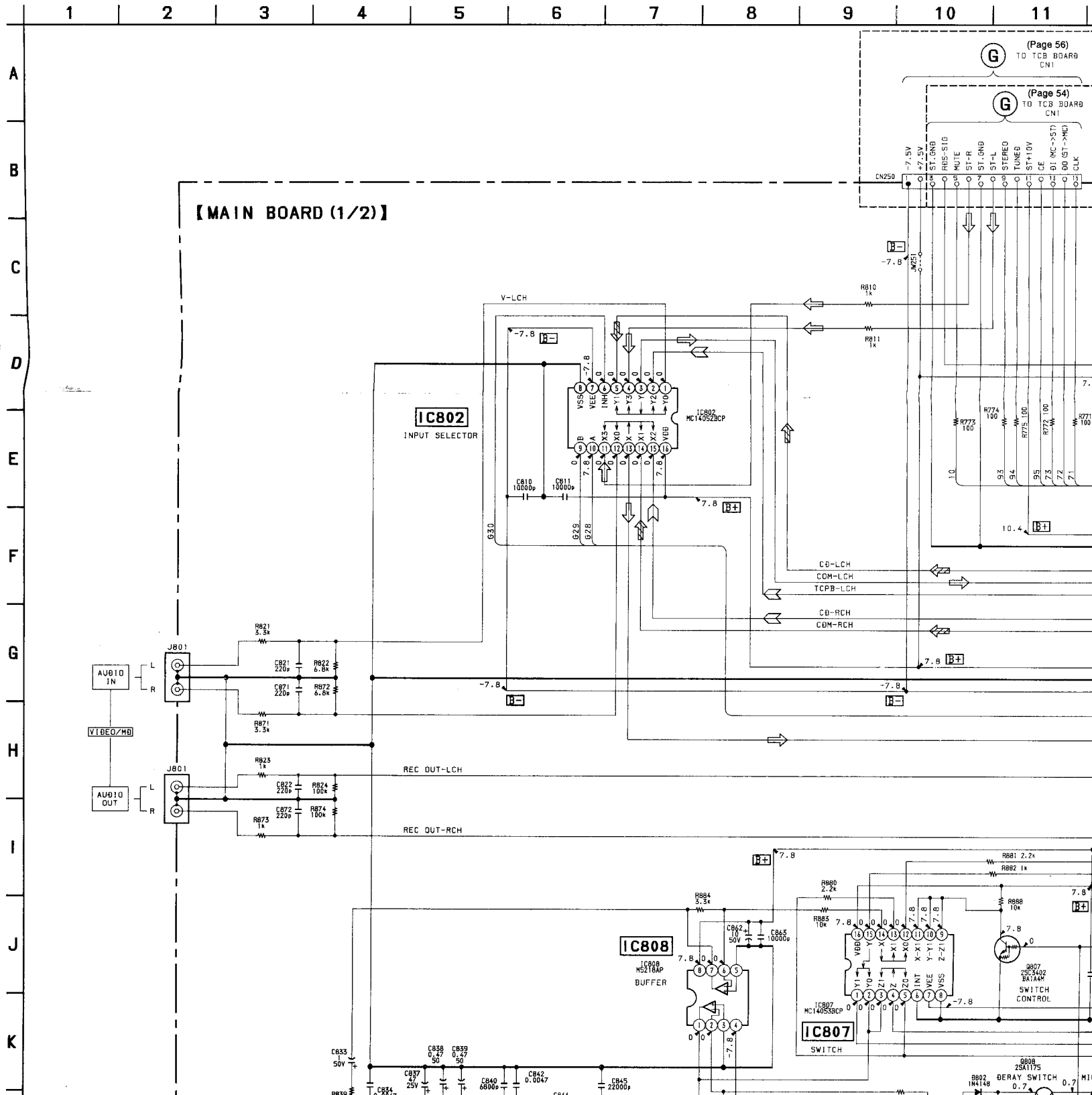


ge 73 for IC Block Diagrams.



6-7. SCHEMATIC DIAGRAM – MAIN SECTION (1/2) –

● Refer to page 73 for IC Block Diagrams.



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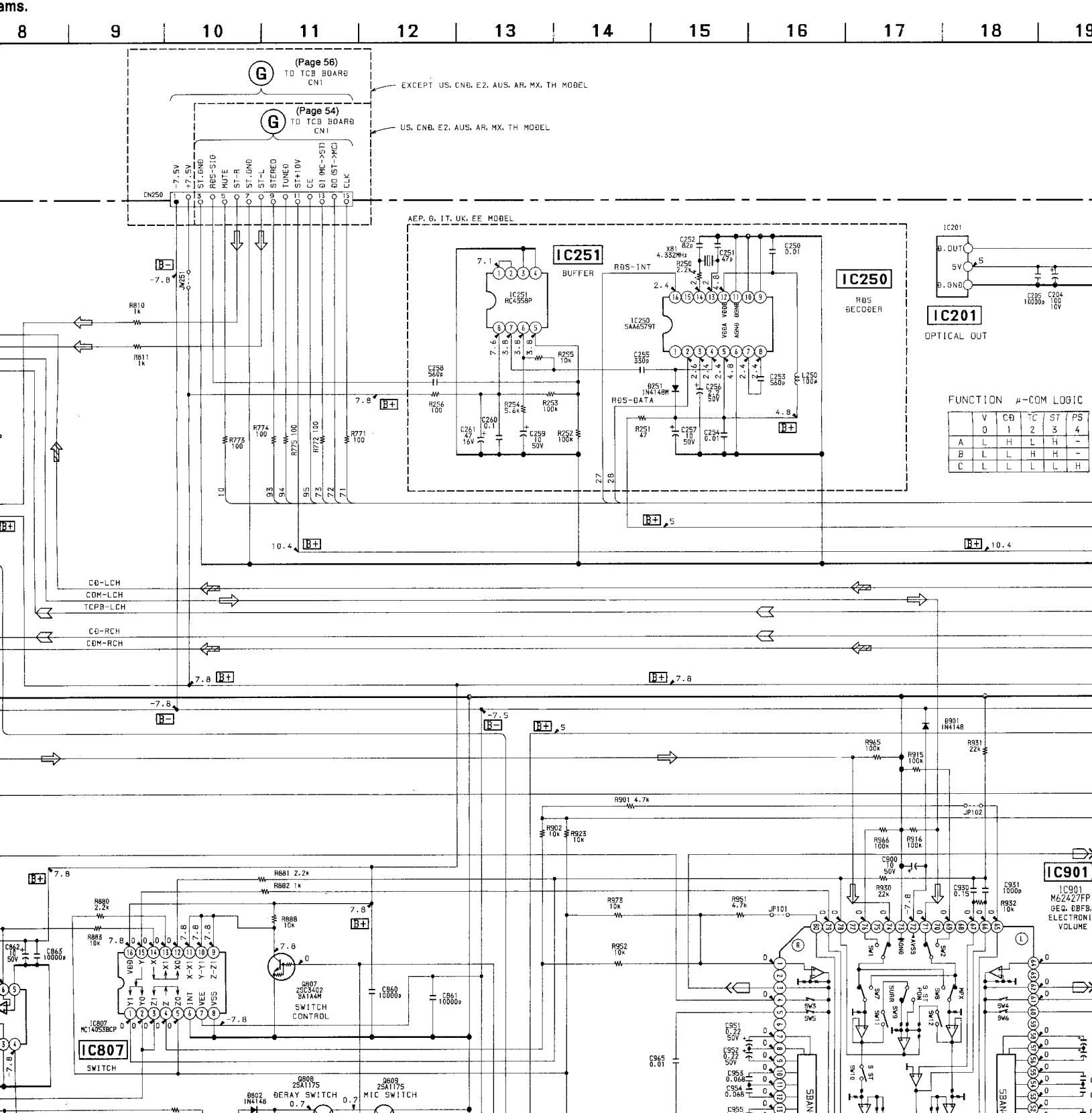
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(Page 56)
TO TCB BOARD
CN1
EXCEPT US, CND, E2, AUS, AR, MX, TH MODEL
(Page 54)
TO TCB BOARD
CN1
US, CND, E2, AUS, AR, MX, TH MODEL
CN250
+7.5V
+7.5V
ST.GND
RDS-SIG
MUTE
ST-R
ST.GND
ST-L
STEREO
TUNED
ST+10V
CE
DI (MC->ST)
DO (ST->MC)
CLK
AEP, G, IT, UK, EE MODEL
IC251
BUFFER
IC251
RC4558P
RDS-INT
IC250
SAA6579T
IC250
RDS
DECODER
IC201
OPTICAL OUT
FUNCTION μ-COM LOGIC
C0-LCH
COM-LCH
TCPB-LCH
C0-RCH
COM-RCH
IC807
SWITCH
IC807
MC14053BCP
SWITCH
CONTROL
Q807
2SC3402
BA1A4M
Q808
2SA1175
DERAY SWITCH
Q809
2SA1175
MIC SWITCH
D802
1N4148
D901
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IC901
M62427FP
GEQ, DBFB,
ELECTRONI
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SW824
SW825
SW826
SW827
SW828
SW829
SW830
SW831
SW832
SW833
SW834
SW835
SW836
SW837
SW838
SW839
SW840
SW841
SW842
SW843
SW844
SW845
SW846
SW847
SW848
SW849
SW850
SW851
SW852
SW853
SW854
SW855
SW856
SW857
SW858
SW859
SW860
SW861
SW862
SW863
SW864
SW865
SW866
SW867
SW868
SW869
SW870
SW871
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SW890
SW891
SW892
SW893
SW894
SW895
SW896
SW897
SW898
SW899
SW900
SW901
SW902
SW903
SW904
SW905
SW906
SW907
SW908
SW909
SW910
SW911
SW912
SW913
SW914
SW915
SW916
SW917
SW918
SW919
SW920
SW921
SW922
SW923
SW924
SW925
SW926
SW927
SW928
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SW930
SW931
SW932
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SW937
SW938
SW939
SW940
SW941
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SW950
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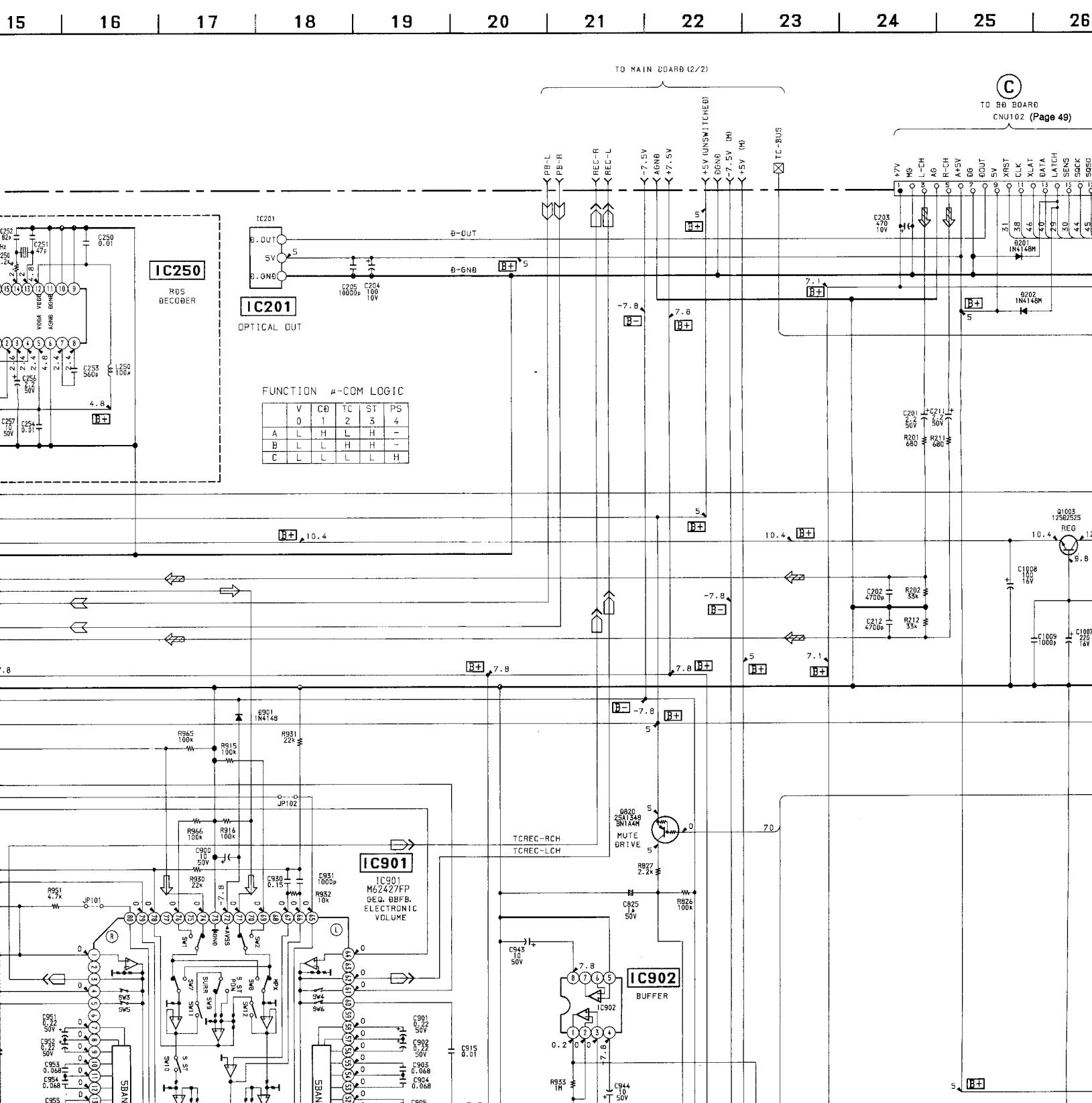
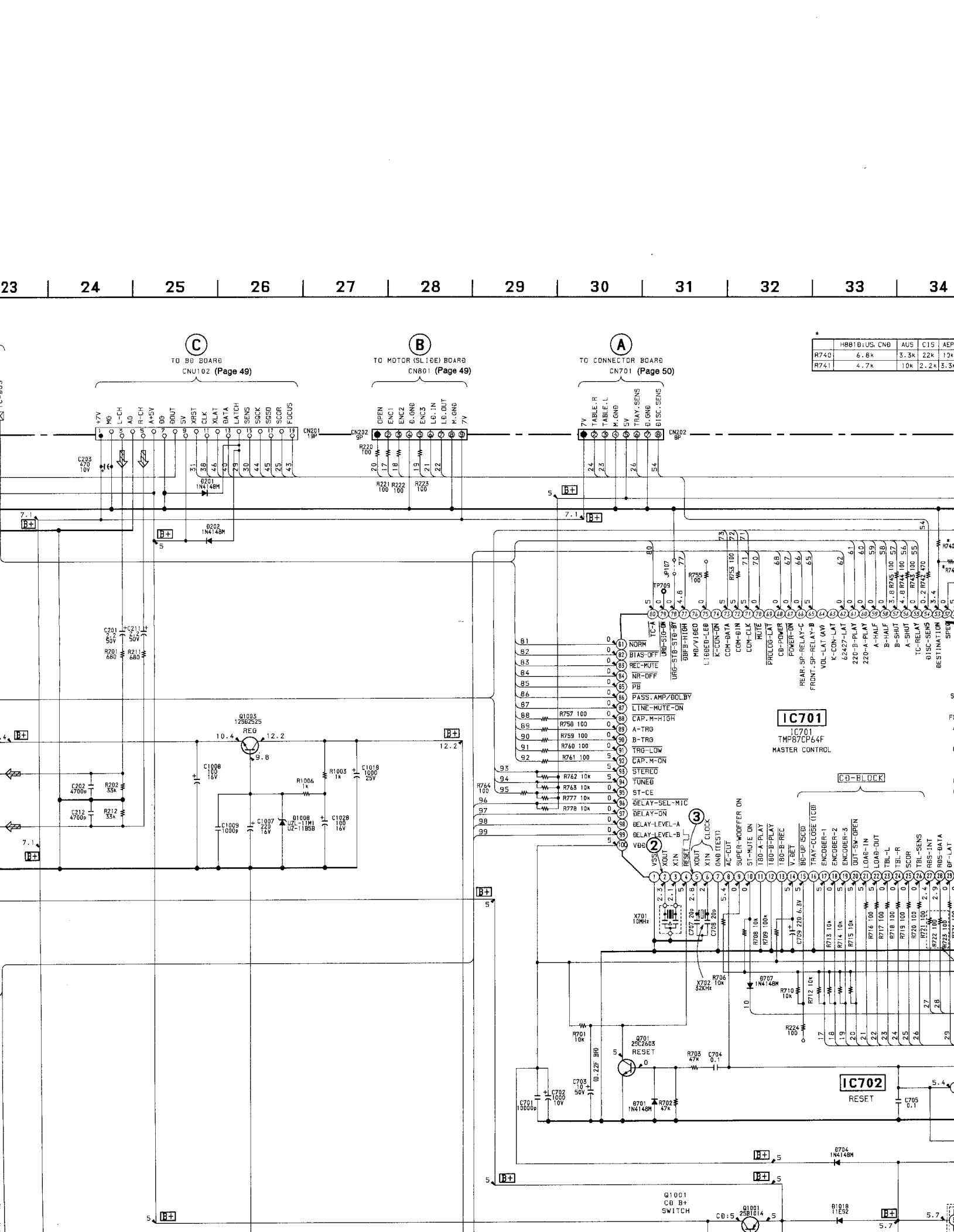
SW961
SW962
SW963
SW964
SW965
SW966
SW967
SW968
SW969
SW970
SW971
SW972
SW973
SW974
SW975
SW976
SW977
SW978
SW979
SW980
SW981
SW982
SW983
SW984
SW985
SW986
SW987
SW988
SW989
SW990
SW991
SW992
SW993
SW994
SW995
SW996
SW997
SW998
SW999
SW1000


15
16
17
18
19
20
21
22
23
24
25
26
TO MAIN BOARD (2/2)
TO BB BOARD
CNU102 (Page 49)
PB-L
PB-R
REC-R
REC-L
-7.5V
AGND
+7.5V
+5V (UNSWITCHED)
DGND
-7.5V (M)
+5V (M)
TC-BUS
+7V
MG
L-CH
AG
R-CH
A+5V
BG
DOUT
SV
XRST
CLK
XLAT
DATA
LATCH
SENS
SQCK
SDSO
IC250
RDS DECODER
IC201
OPTICAL OUT
D-OUT
5V
D.GND
FUNCTION μ-COM LOGIC
V
CD
TC
ST
PS
IC901
M62427FP
GEQ, BBFB, ELECTRONIC VOLUME
IC902
BUFFER
MUTE DRIVE
TCREC-RCH
TCREC-LCH
REG

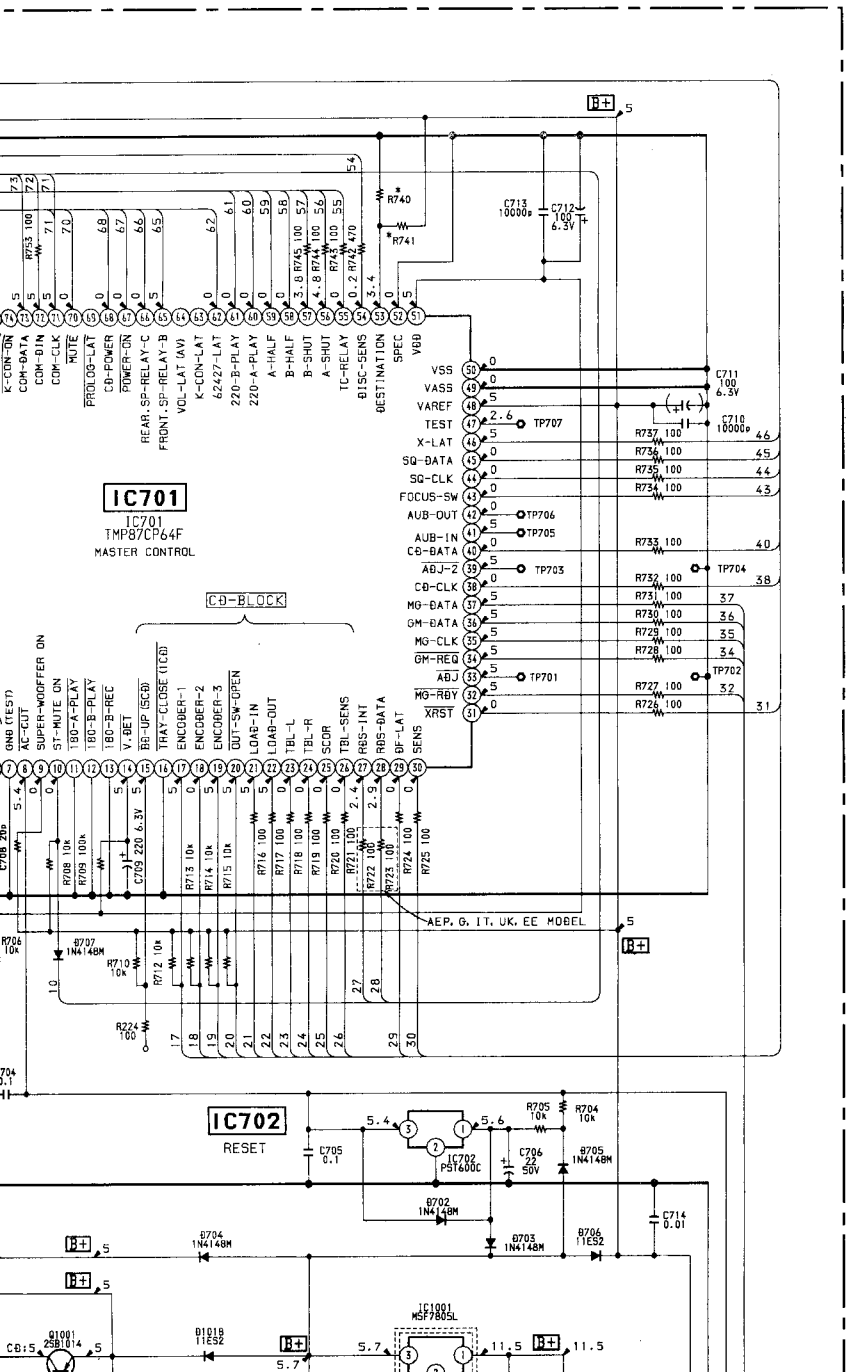


	H8810:US, CND	AUS	CIS	AEP
R740	6.8k	3.3k	22k	10k
R741	4.7k	10k	2.2k	3.3k

32 | 33 | 34 | 35 | 36 | 37 | 38

*

	H881B:US, CND	AUS	CIS	AEP	UK	G	IT	JE	EE	AR	MX	E2
R740	6.8k	3.3k	22k	10k	10k	6.8k	6.8k	680	33k	6.8k	6.8k	6.8k
R741	4.7k	10k	2.2k	3.3k	3.3k	3.3k	3.3k	15k	6.8k	4.7k	4.7k	4.7k



• WAVEFORMS – MAIN SECTION –

① 5Vp-p, 320kHz
IC806 ③

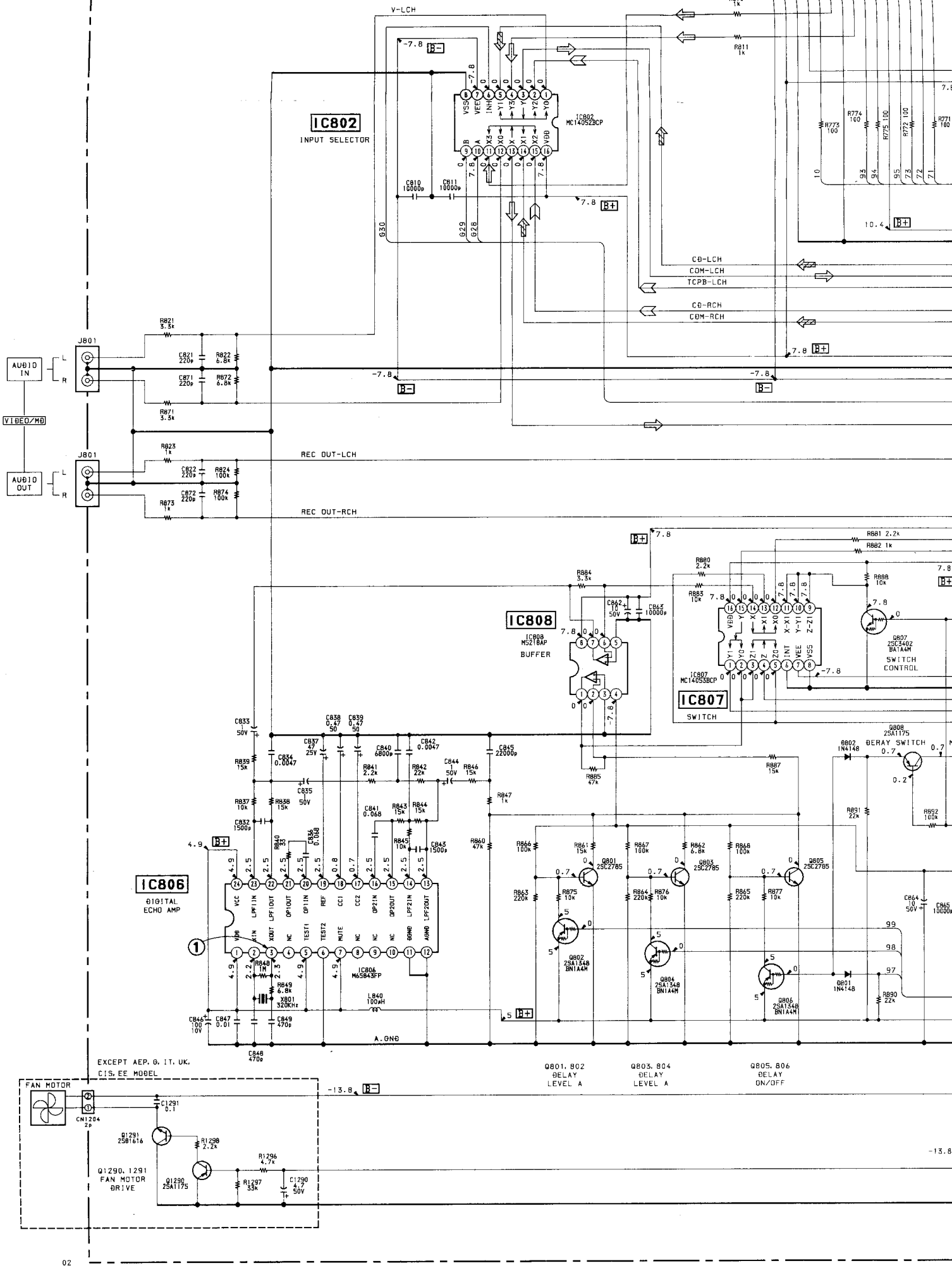
② 3.7Vp-p, 10MHz
IC701 ②

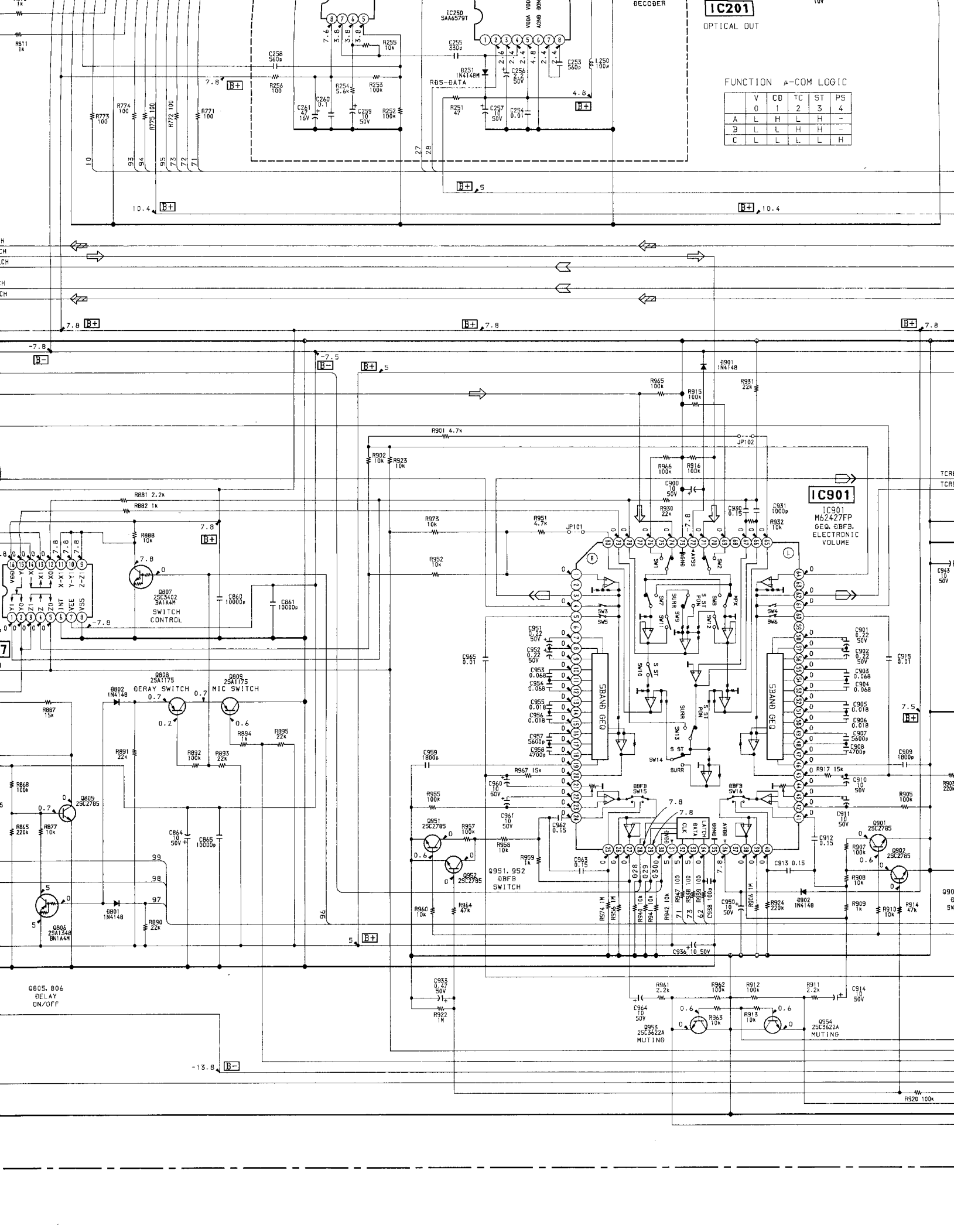
③ 4.2Vp-p, 32kHz
IC701 ⑤

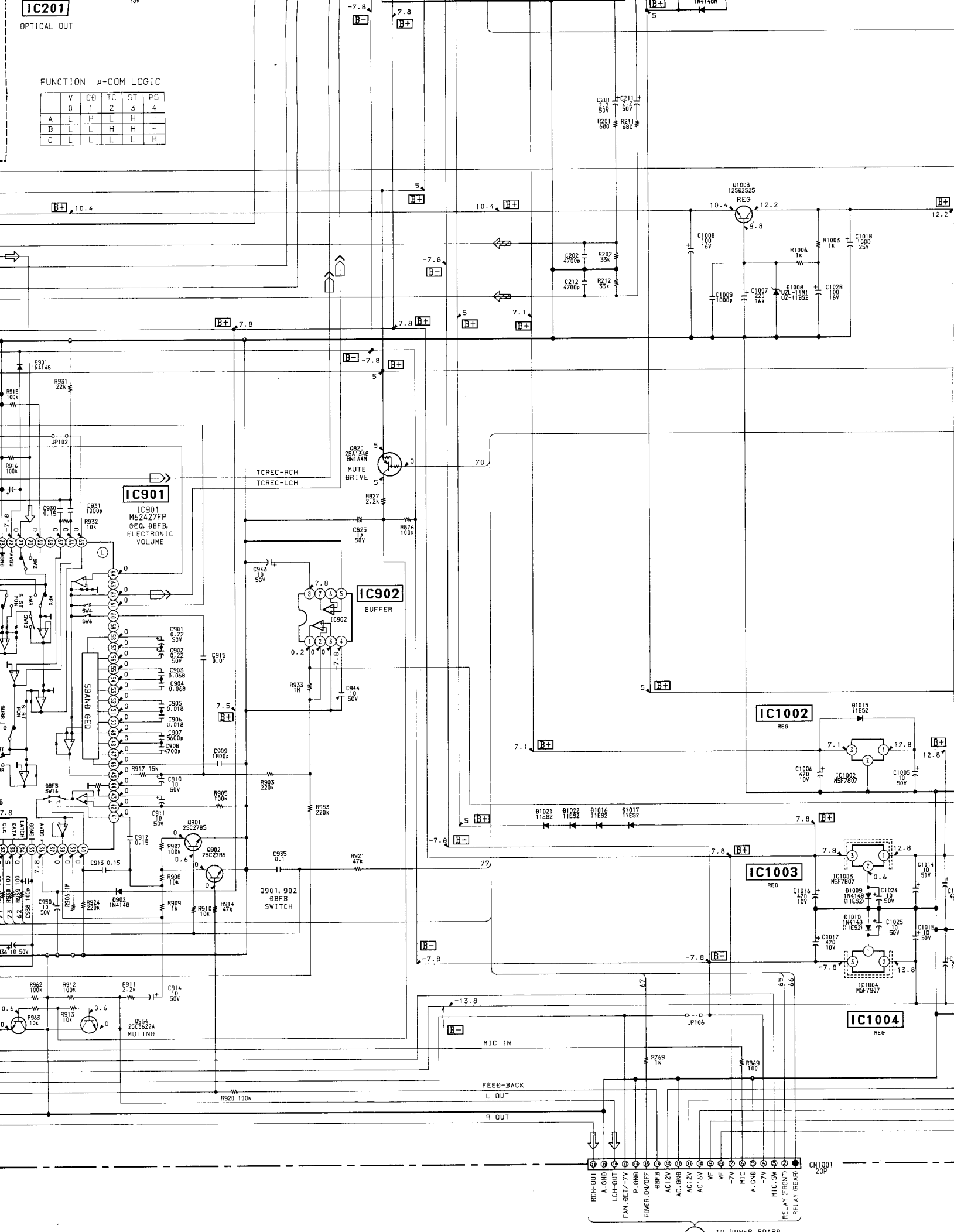
Note :

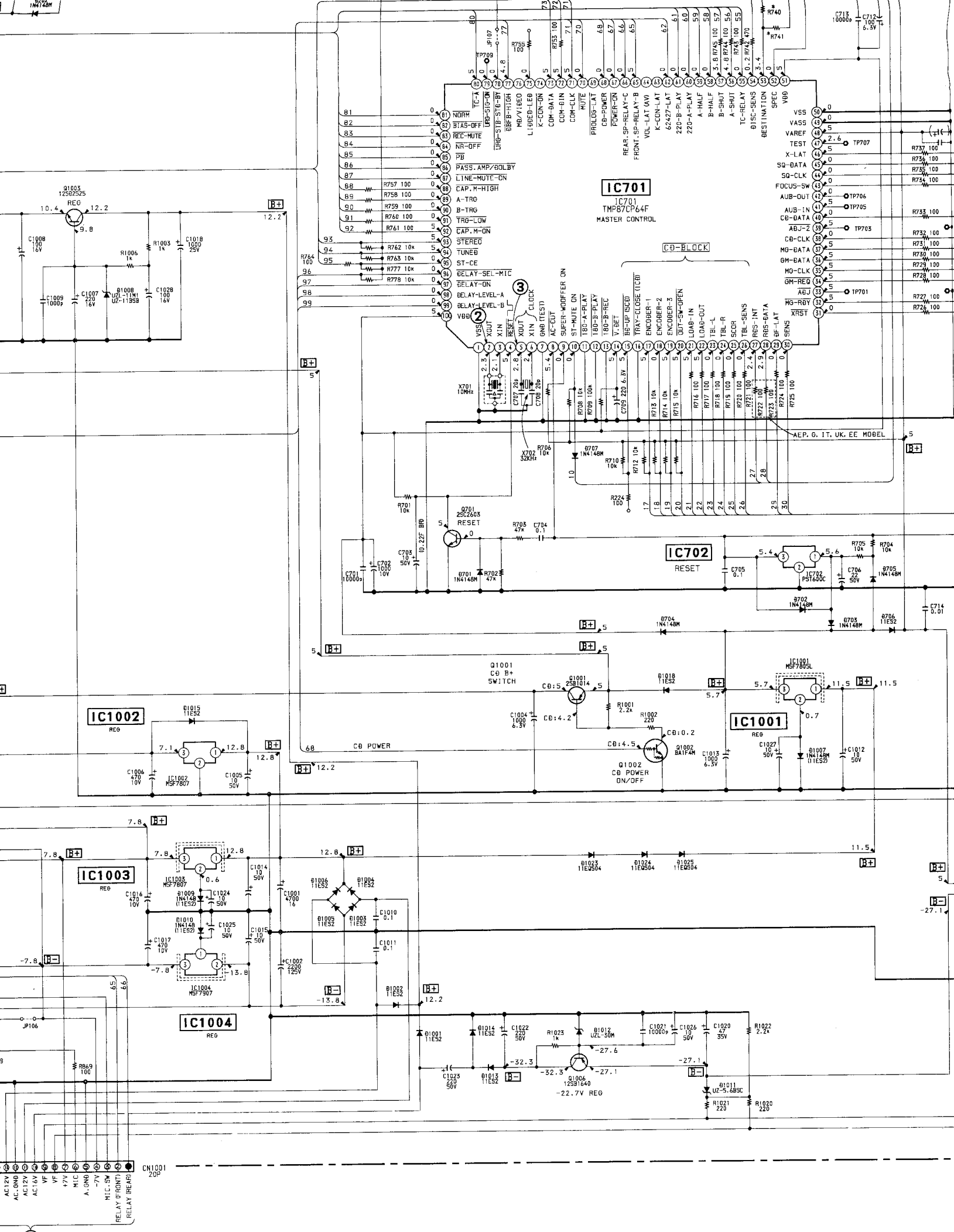
- All capacitors are in μ F unless otherwise noted. pF 50WV or less are not indicated except for electrolytic tantalums.
- All resistors are in Ω and ¼W or less unless otherw specified.
- △ : internal component.

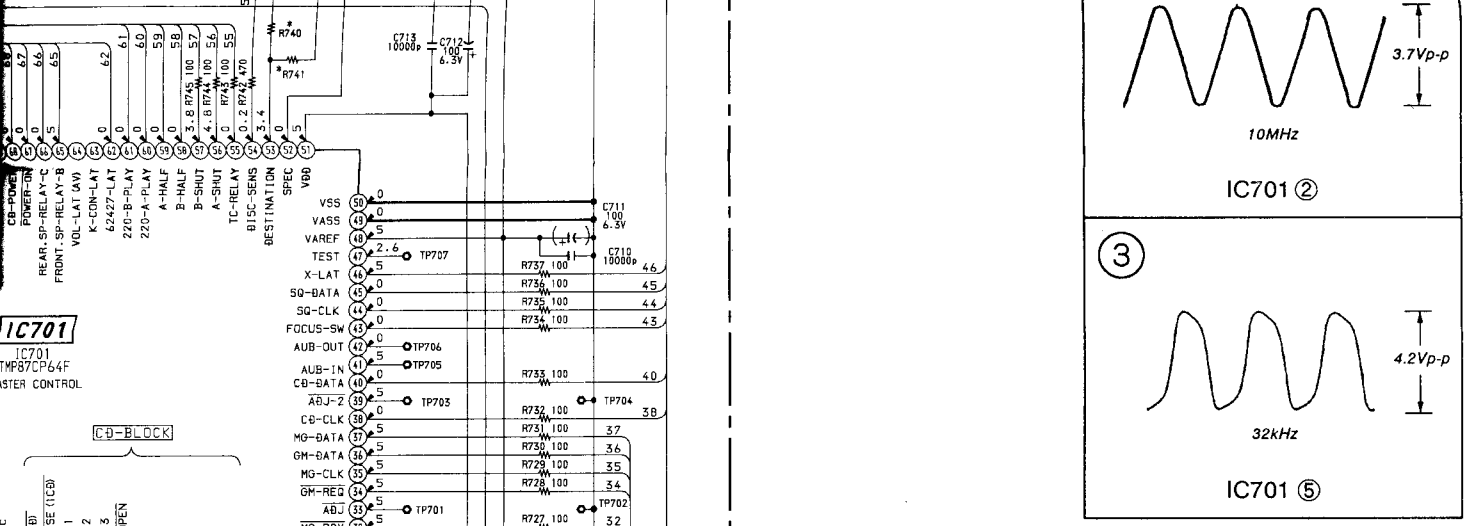
Note :	**Note :**
The components identified by mark ⚠ or dotted line with mark ⚠	Les composants identifié une marque ⚠ sont criti pour la sécurité.

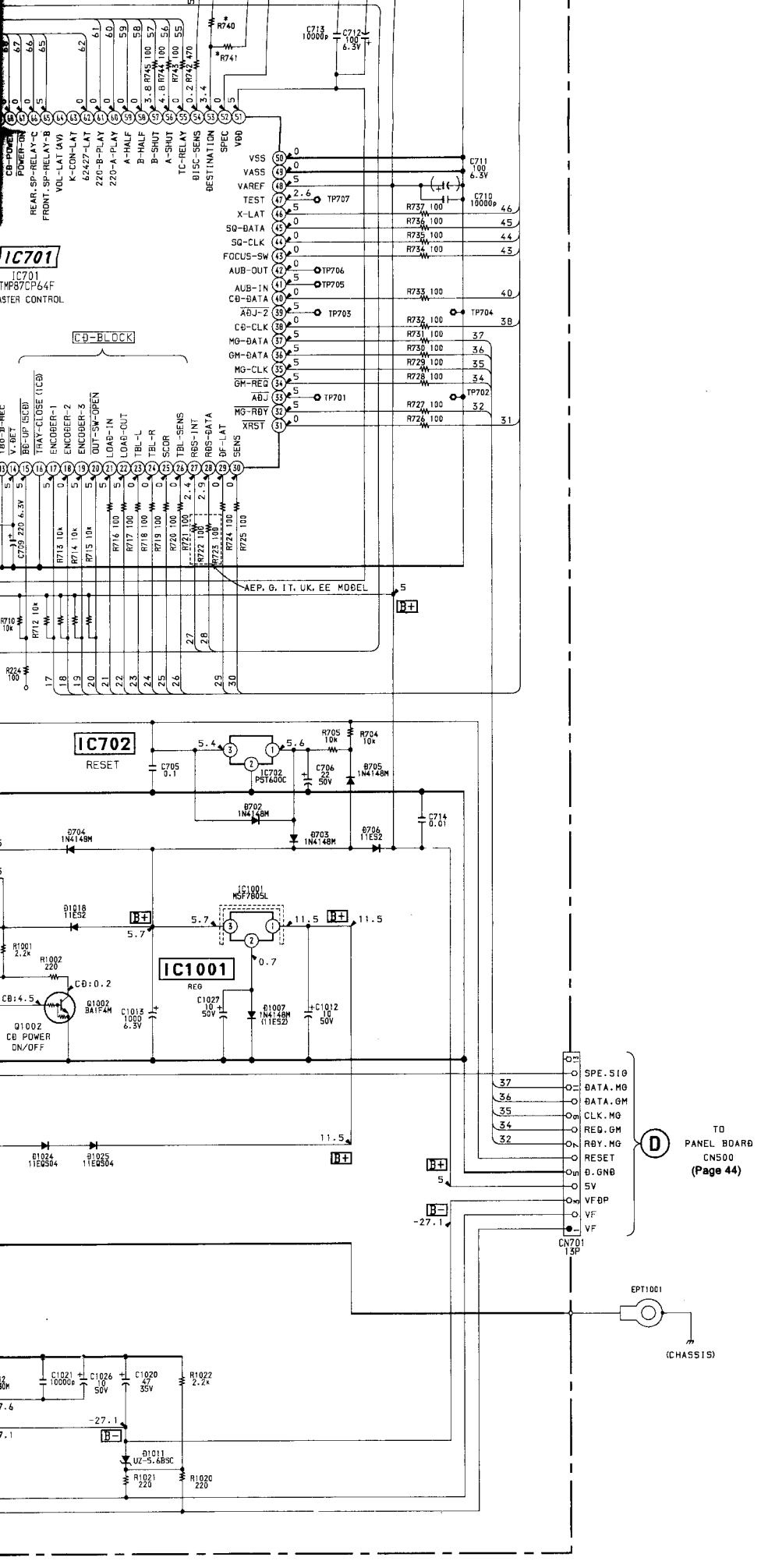

IC802
INPUT SELECTOR
IC802
MC14052BCP
V-LCH
CD-LCH
COM-LCH
TCPB-LCH
CD-RCH
COM-RCH
AUDIO IN
AUDIO OUT
VIDEO/MD
J801
REC OUT-LCH
REC OUT-RCH
IC808
M5218AP
BUFFER
IC807
SWITCH
IC807
MC14053BCP
SWITCH CONTROL
Q807
2SC3402
BA1A4M
Q808
2SA1175
BERAY SWITCH
IC806
DIGITAL
ECHO AMP
IC806
M65843FP
X801
320KHz
Q801
2SC2785
Q803
2SC2785
Q805
2SC2785
Q802
2SA1348
BN1A4M
Q804
2SA1348
BN1A4M
Q806
2SA1348
BN1A4M
Q801, 802
DELAY
LEVEL A
Q803, 804
DELAY
LEVEL A
Q805, 806
DELAY
ON/OFF
EXCEPT AEP, G, IT, UK,
CIS, EE MODEL
FAN MOTOR
CN1204
Q1291
2SB1616
Q1290
2SA1175
Q1290, 1291
FAN MOTOR
DRIVE
A.GND


IC201
OPTICAL OUT
DECODER
IC250
SAA6579T
FUNCTION μ-COM LOGIC
IC901
M62427FP
GEQ, BBFB,
ELECTRONIC
VOLUME
SWITCH
CONTROL
DELAY SWITCH
MIC SWITCH
Q951, 952
BBFB
SWITCH
Q805, 806
DELAY
ON/OFF
MUTING
MUTING


IC201
OPTICAL OUT
FUNCTION μ-COM LOGIC
IC901
M62427FP
GEQ. BBFB, ELECTRONIC VOLUME
IC902
BUFFER
IC1002
REG
IC1003
REG
IC1004
REG
Q1003
12S02525
REG
Q820
2SA1348
BN1A4M
MUTE DRIVE
Q954
2SC3622A
MUTING
Q901, 902
BBFB SWITCH
TCREC-RCH
TCREC-LCH
MIC IN
FEEDBACK
L OUT
R OUT
CN1001
20P
RCH-OUT
A.GND
LCH-OUT
FAN.DET/-7V
P.GND
POWER.ON/OFF
BBFB
AC12V
AC.GND
AC12V
AC16V
VF
VF
+7V
MIC
A.GND
-7V
MIC.SW
RELAY (FRONT)
RELAY (REAR)
TO POWER BOARD


IC701
IC701
TMP87CP64F
MASTER CONTROL
CD-BLOCK
IC702
RESET
IC702
PST600C
IC1001
REG
IC1001
M5F7805L
IC1002
REG
IC1002
M5F7807
IC1003
REG
IC1003
M5F7807
IC1004
REG
IC1004
M5F7907
Q1001
CD B+
SWITCH
Q1002
CD POWER
ON/OFF
CD POWER
AEP, G, IT, UK, EE MODEL
CN1001
20P
NORM
BIAS-OFF
REC-MUTE
NR-OFF
PB
PASS.AMP/DOLBY
LINE-MUTE-ON
CAP.M-HIGH
A-TRG
B-TRG
TRG-LOW
CAP.M-ON
STEREO
TUNED
ST-CE
DELAY-SEL-MIC
DELAY-ON
DELAY-LEVEL-A
DELAY-LEVEL-B
VBB
VSS
XOUT
XIN
RESET
CLOCK
GND (TEST)
AC-OUT
SUPER-WOOFFER ON
ST-MUTE ON
180-A-PLAY
180-B-PLAY
180-B-REC
V.DET
BB-UP (SCED)
TRAY-CLOSE (CDV)
ENCODER-1
ENCODER-2
ENCODER-3
OUT-SW-OPEN
LOAD-IN
LOAD-OUT
TBL-L
TBL-R
SCOR
TBL-SENS
RES-INT
RES-DATA
DF-LAT
SENS
VSS
VASS
VAREF
TEST
X-LAT
SQ-DATA
SQ-CLK
FOCUS-SW
AUB-OUT
AUB-IN
CB-DATA
ADJ-2
CB-CLK
MG-DATA
GM-DATA
MG-CLK
GM-REQ
ADJ
MG-RDY
XRST
VBB
DESTINATION SPEC
DISC-SENS
TC-RELAY
A-SHUT
B-SHUT
B-HALF
A-HALF
220-A-PLAY
220-B-PLAY
62427-LAT
K-CON-LAT
VOL-LAT (AV)
FRONT, SP-RELAY-B
REAR, SP-RELAY-C
CD-POWER
POWER-ON
PROLOG-LAT
MUTE
COM-CLK
COM-BIN
COM-DATA
K-CON-ON
LIMDED-LED
MB/VIDEO
DBFB-HIGH
DRG-STB-BY
DRG-STB-ON
TC-1
AC12V
AC.GND
AC12V
AC16V
VF
+7V
MIC
A.GND
-7V
MIC.SW
RELAY (FRONT)
RELAY (REAR)





Note :

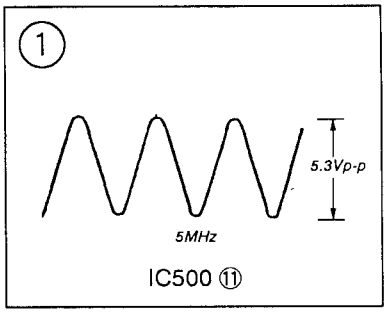
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

Note :	**Note :**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

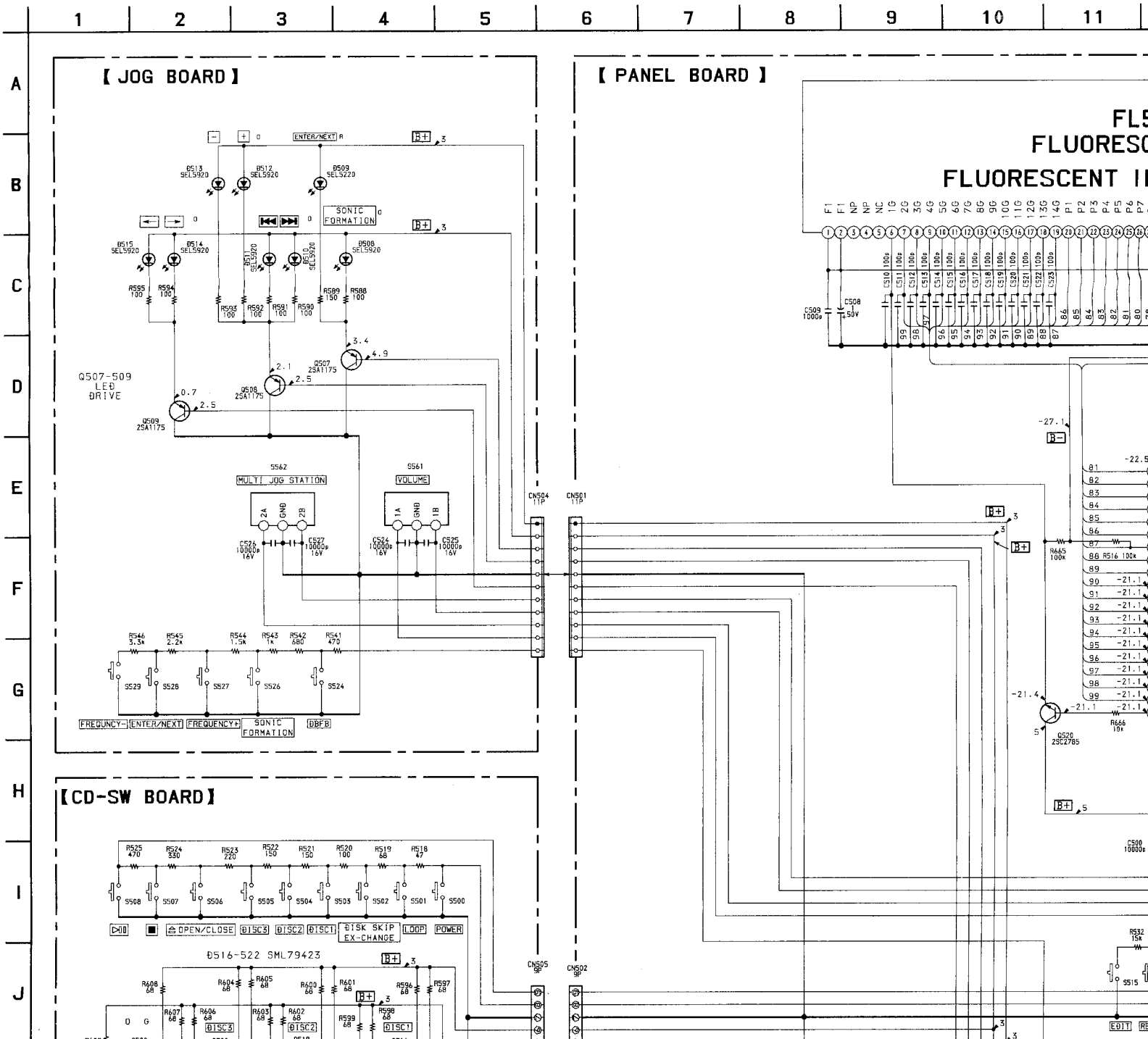
- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ⇨ : PB (DECK A)
  ⇨ : CD ⇨ : PB (DECK B)
  ⇨ : REC (DECK B)
- Abbreviation

CND	: Canadian	HK	: Hong Kong
AUS	: Australian	JE	: Tourist
AR	: Argentine	IA	: Indonesia
MX	: Mexican	G	: German
TH	: Thailand	IT	: Italian
EA	: Saudi Arabia	EE	: East European
MY	: Malaysia	TW	: Taiwan
SP	: Singapore		

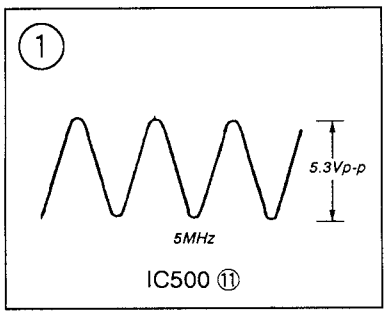
• WAVEFORMS – PANEL SECTION –



6-8. SCHEMATIC DIAGRAM – PANEL SECTION –



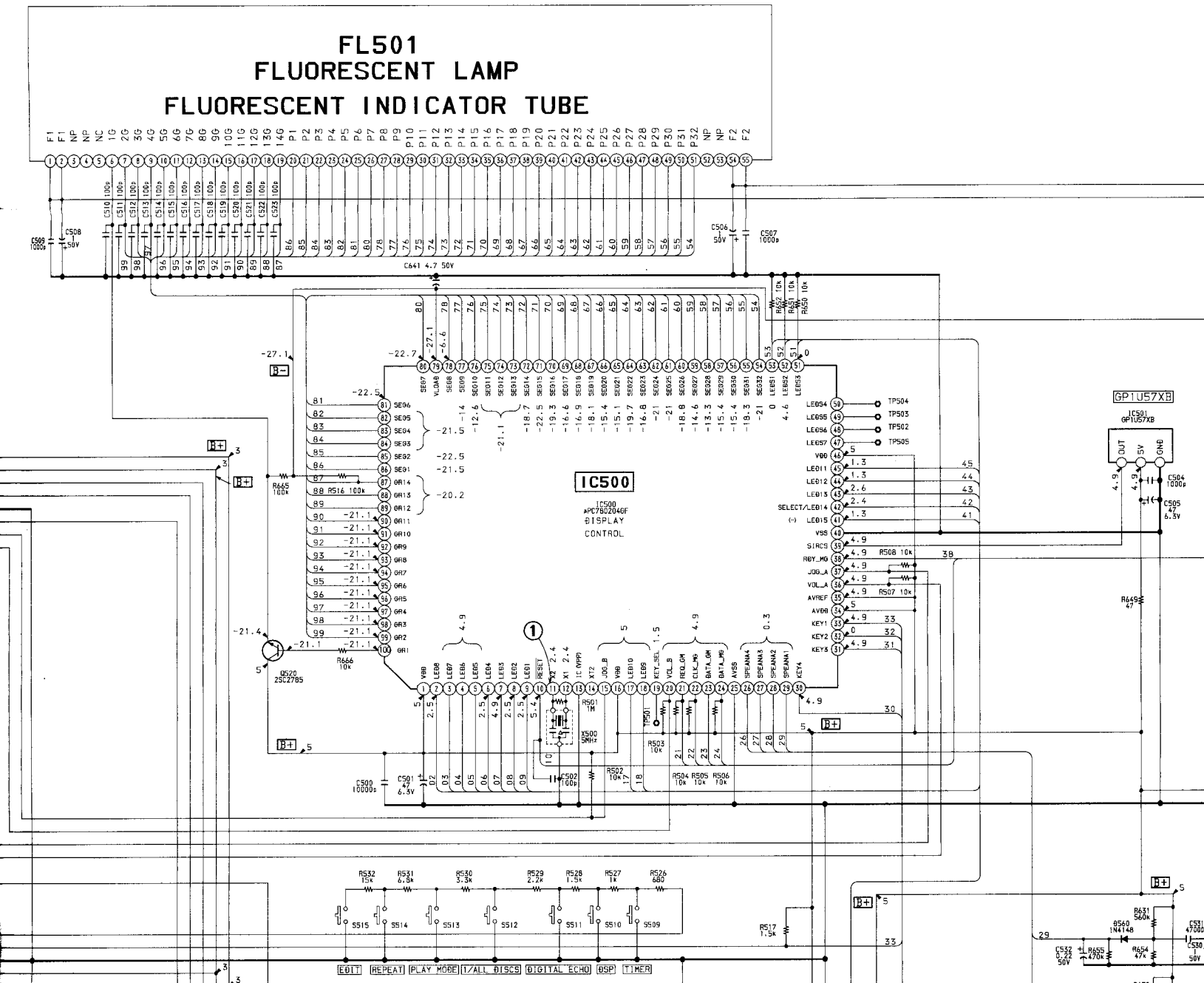
• WAVEFORMS – PANEL SECTION –



Note :

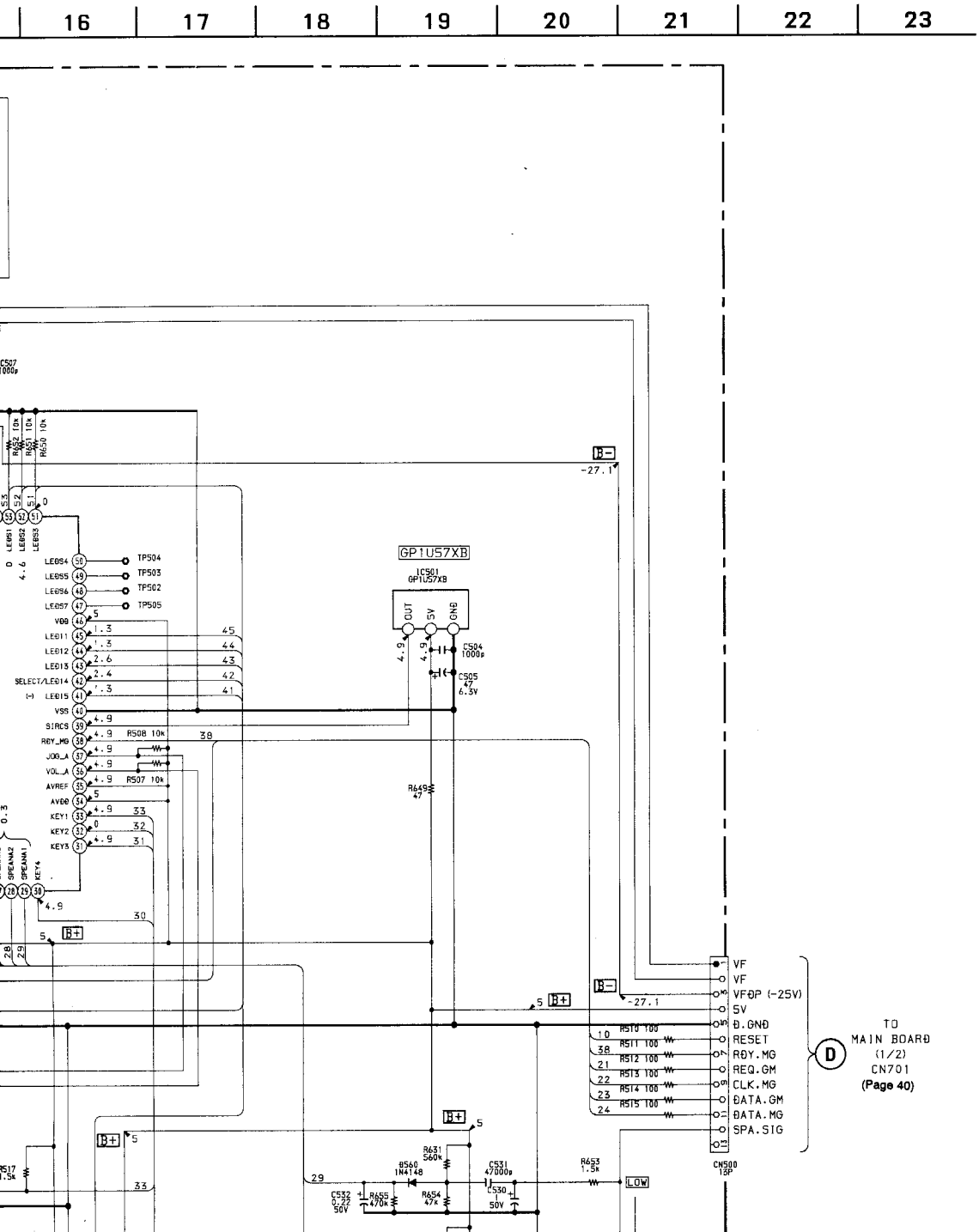
- All capacitors are in μ F unless otherwise noted. 50WV or less are not indicated except for electro tantalums.
- All resistors are in Ω and ¼W or less unless oth specified.
- △ : internal component.
- **B+** : B+ Line
- **B −** : B − Line
- Voltage and waveforms are dc with respect to gr no-signal conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedanc Voltage variations may be noted due to normal p tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal p tolerances.
- Circled numbers refer to waveforms.

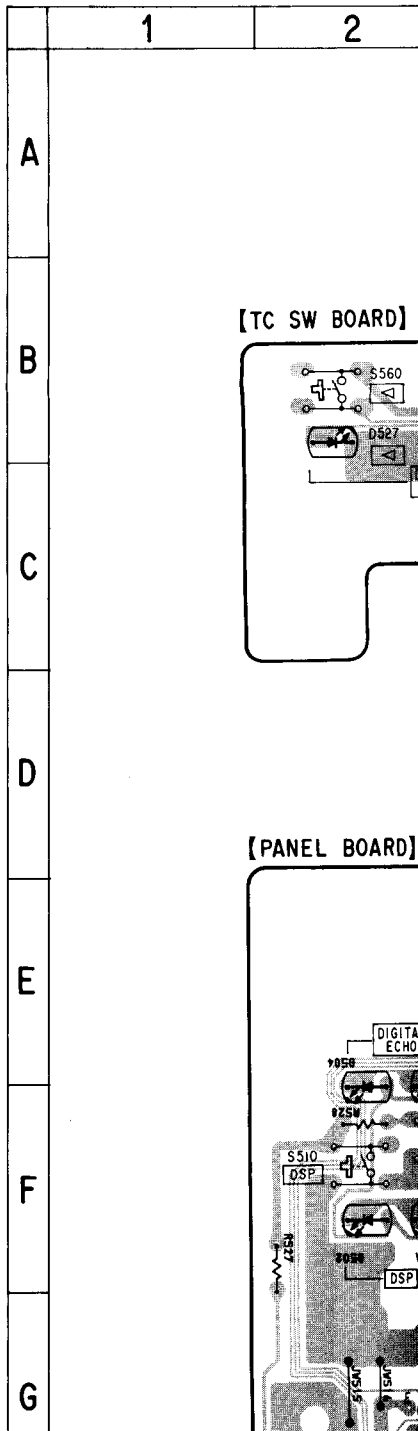
8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19



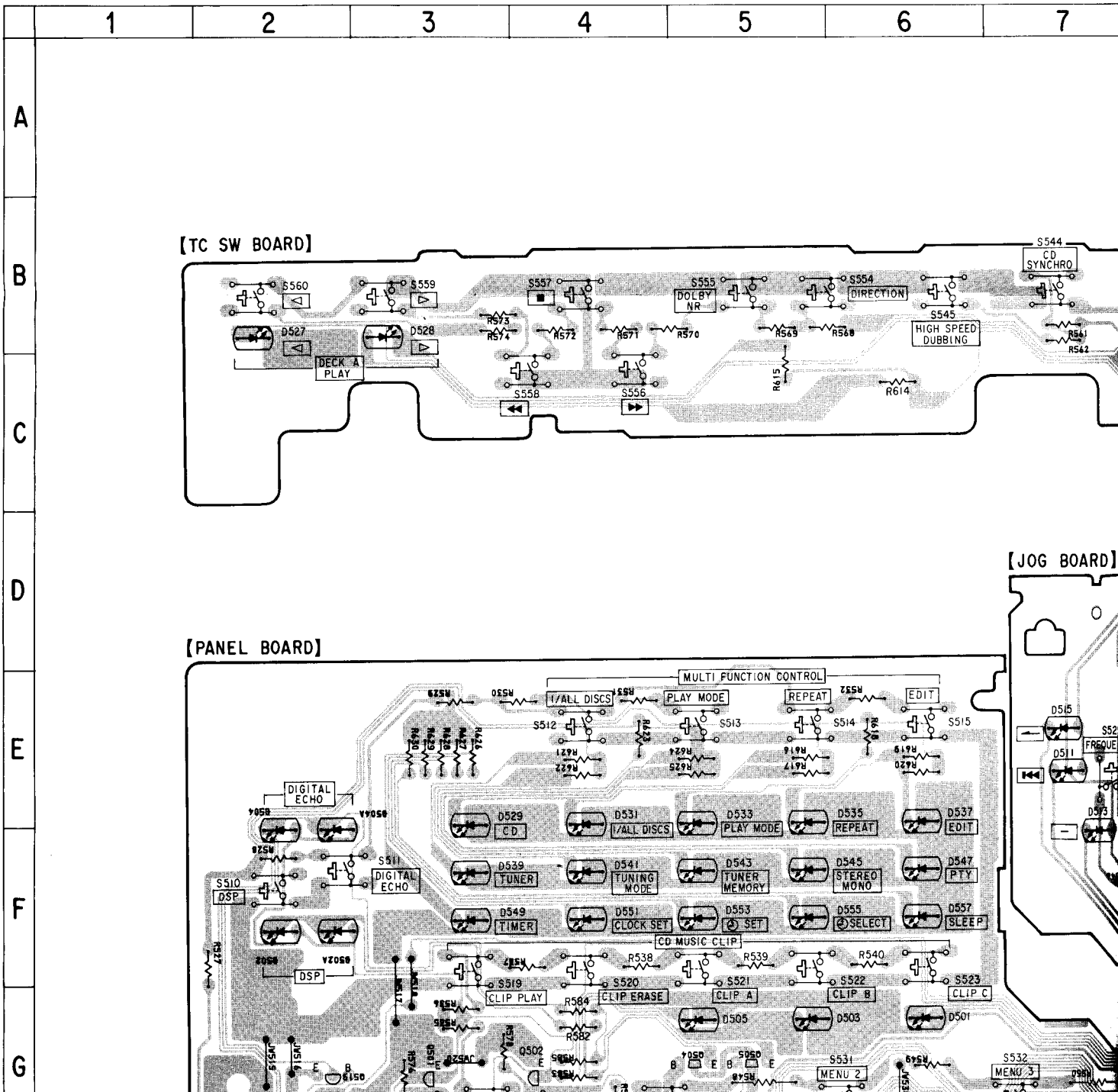
Note :

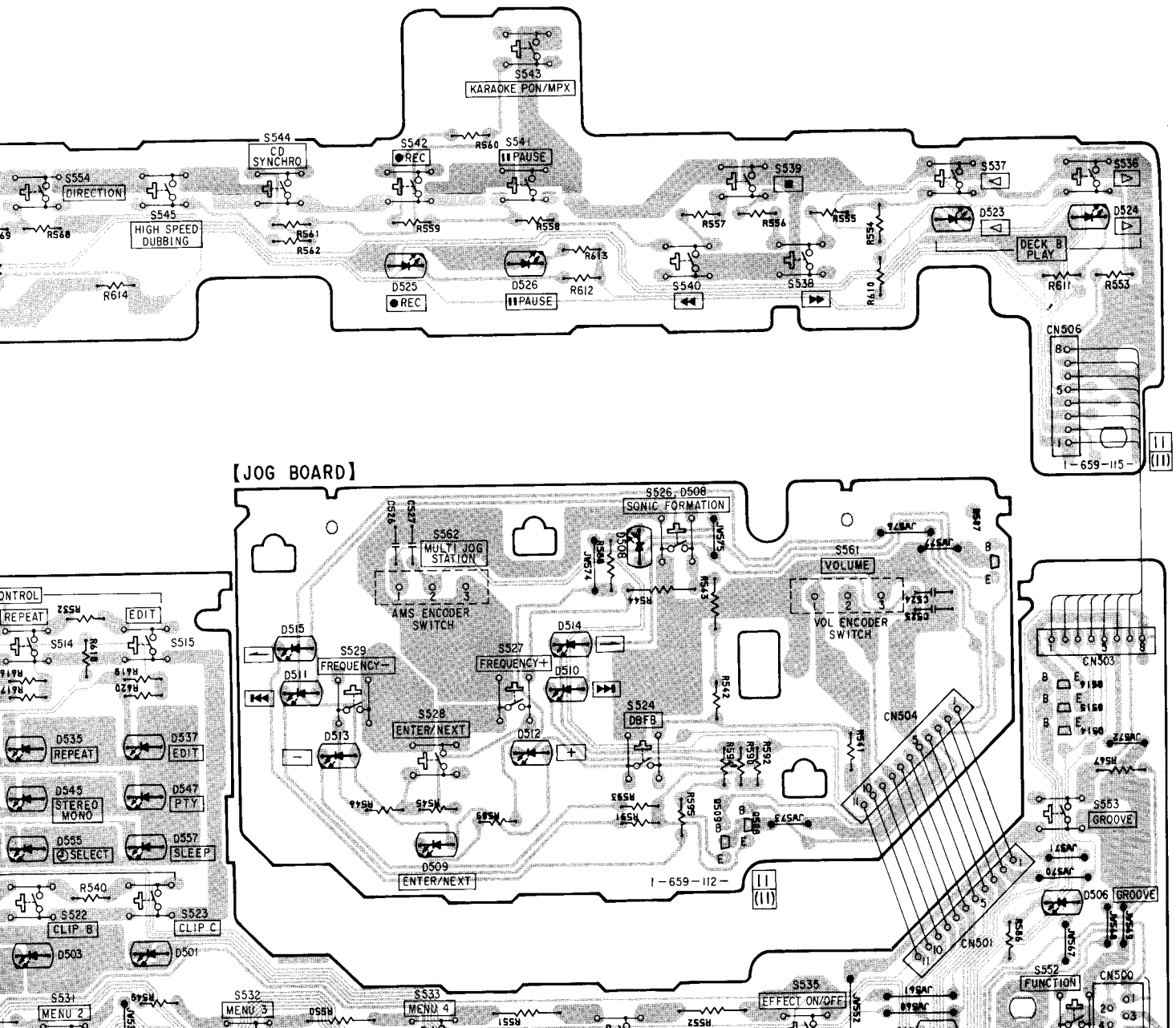
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- **B+** : B+ Line
- **B −** : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

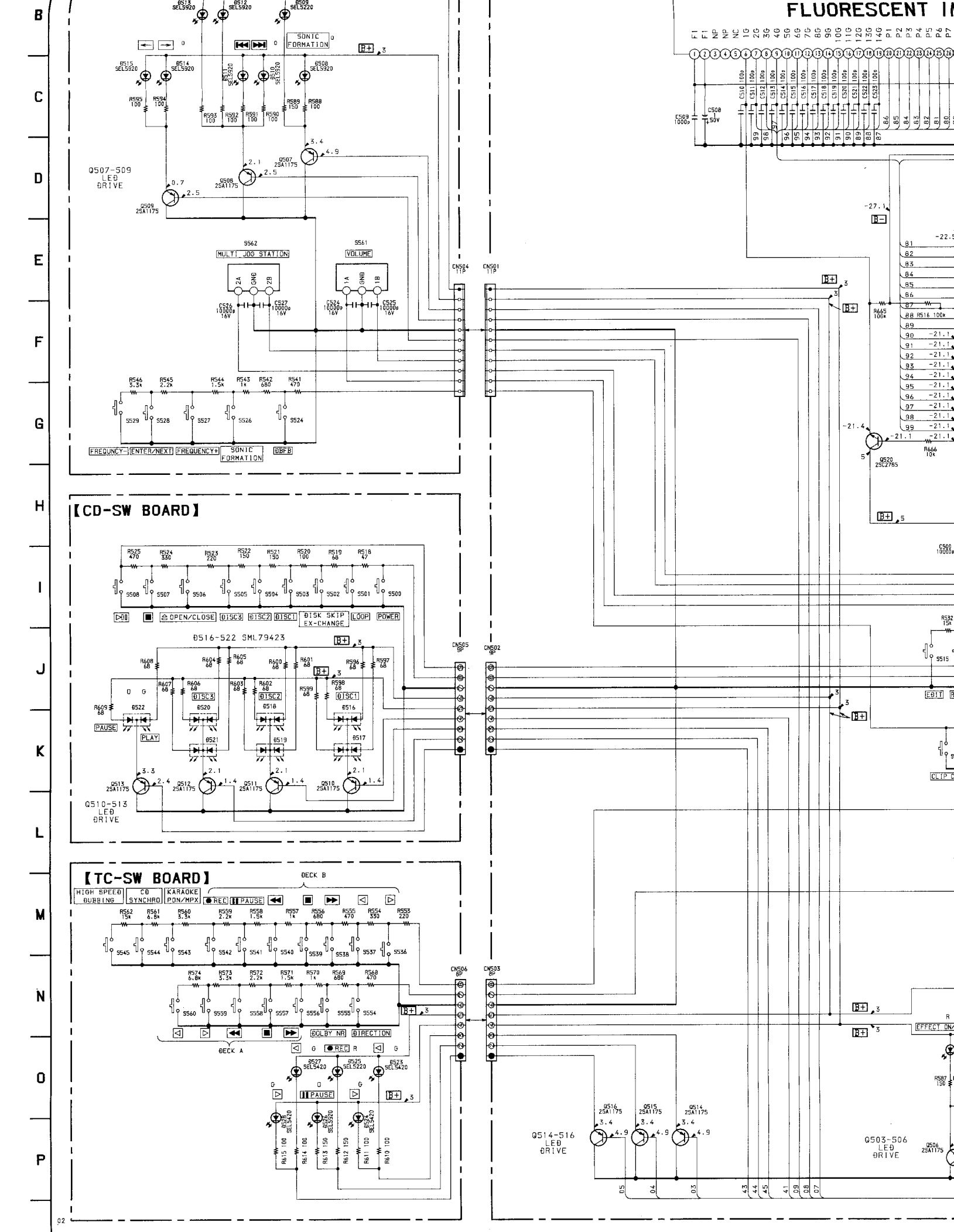


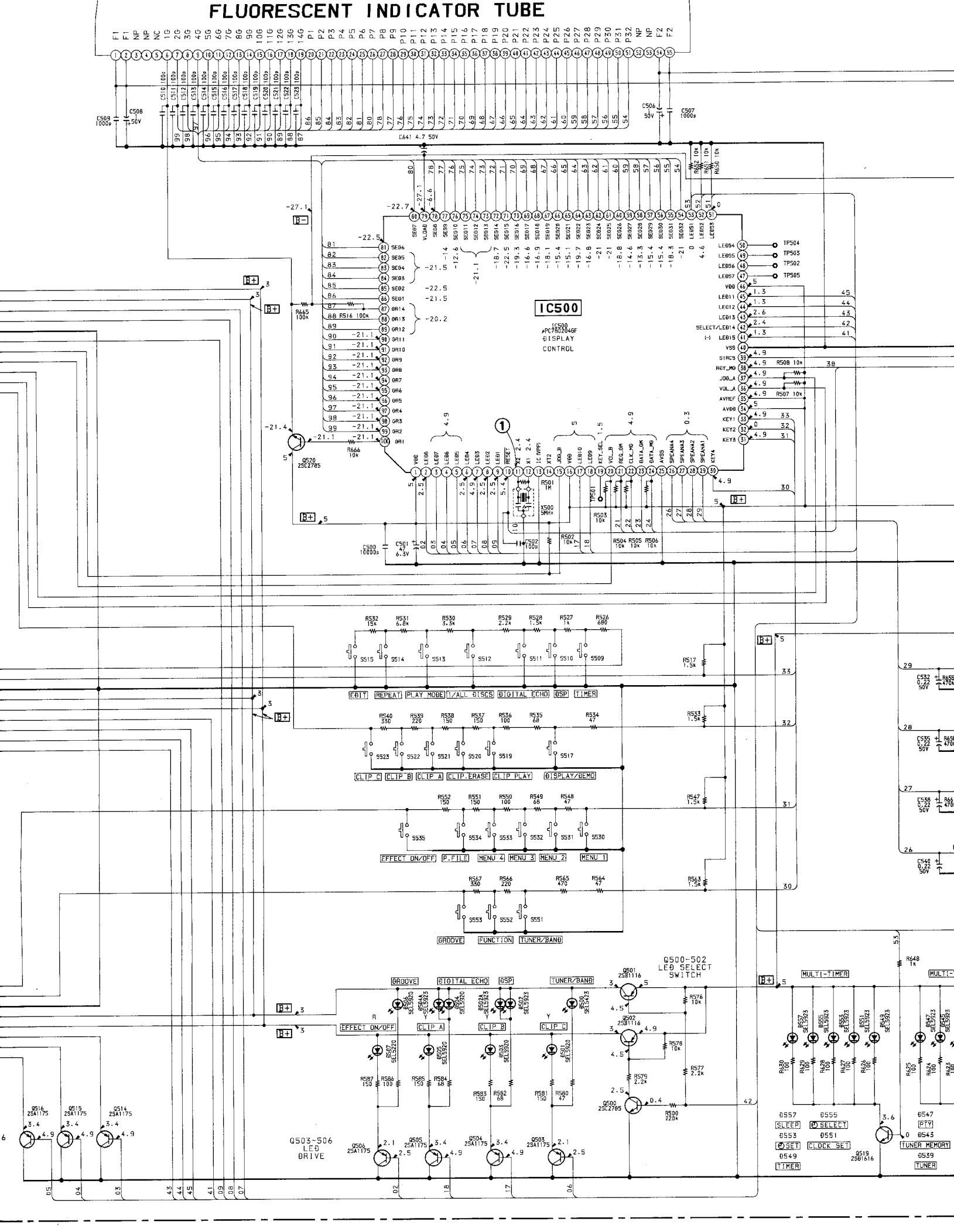


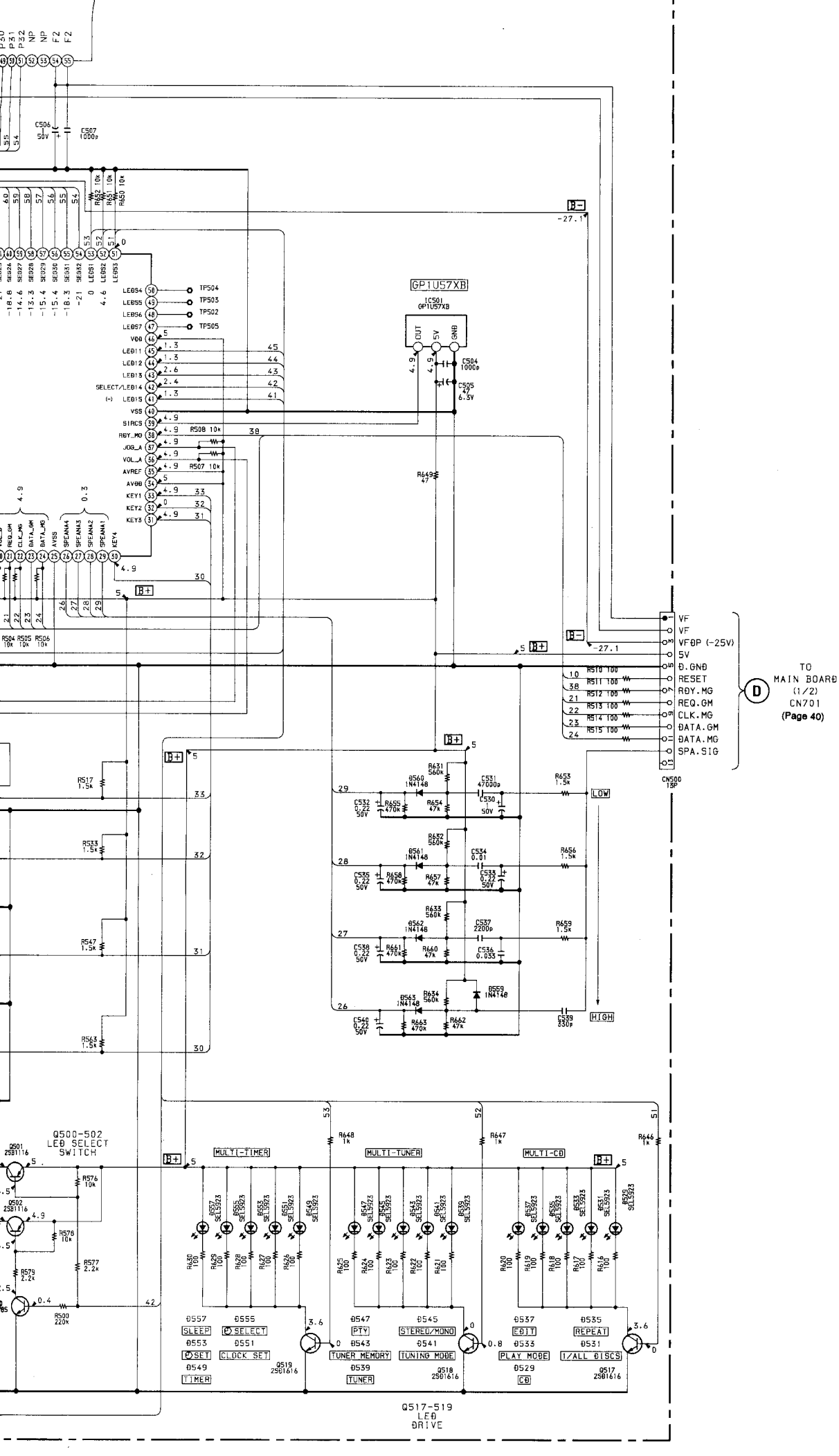
6-9. PRINTED WIRING BOARDS – PANEL SECTION –

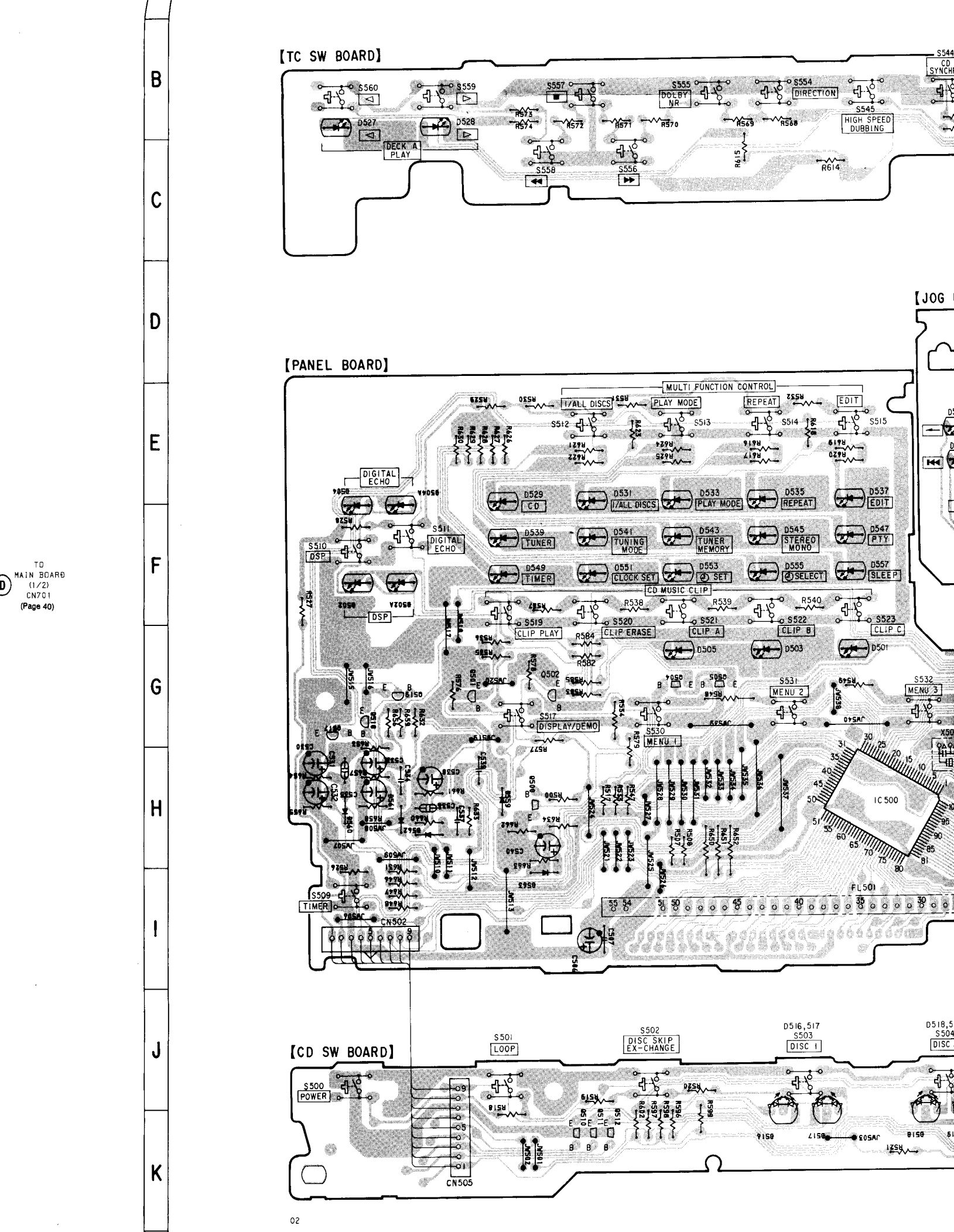



S543
KARAOKE PON/MPX
S544
CD SYNCHRO
S542
●REC
S541
❚❚PAUSE
S554
DIRECTION
S545
HIGH SPEED DUBBING
R560
R559
R558
R561
R562
R614
D525
●REC
D526
❚❚PAUSE
R613
R612
S540
S538
S539
S537
S536
R557
R556
R555
R554
R610
D523
D524
DECK B PLAY
R611
R553
CN506
1-659-115-
11
(11)
【JOG BOARD】
S526, D508
SONIC FORMATION
S562
MULTI JOG STATION
AMS ENCODER SWITCH
S561
VOLUME
VOL ENCODER SWITCH
D515
D511
D513
S529
FREQUENCY-
S527
FREQUENCY+
D514
D510
D512
S528
ENTER/NEXT
D509
ENTER/NEXT
S524
D&FB
CN504
CN503
S553
GROOVE
D506
GROOVE
CN501
S552
FUNCTION
CN500
1-659-112-
11
(11)
ONTROL
REPEAT
EDIT
S514
S515
D535
REPEAT
D537
EDIT
D545
STEREO MONO
D547
PTY
D555
SELECT
D557
SLEEP
R540
S522
CLIP B
S523
CLIP C
D503
D501
S531
MENU 2
S532
MENU 3
S533
MENU 4
S535
EFFECT ON/OFF

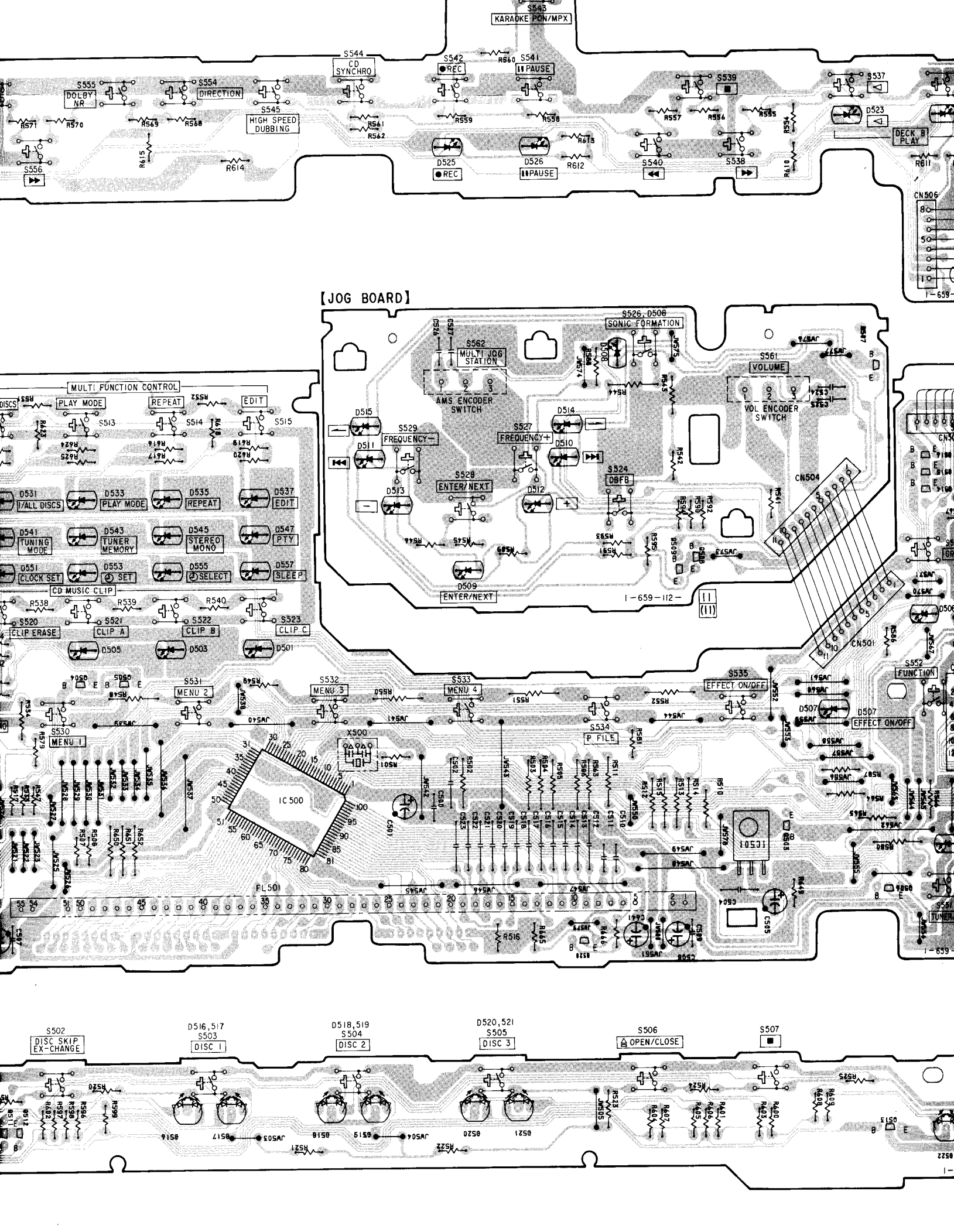

【CD-SW BOARD】
【TC-SW BOARD】
FLUORESCENT
SONIC FORMATION
MULTI JOG STATION
VOLUME
Q507-509 LED DRIVE
Q510-513 LED DRIVE
Q514-516 LED DRIVE
Q503-506 LED DRIVE
OPEN/CLOSE
DISC3
DISC2
DISC1
DISK SKIP EX-CHANGE
LOOP
POWER
PAUSE
PLAY
FREQUENCY-
ENTER/NEXT
FREQUENCY+
DBFB
HIGH SPEED DUBBING
CD SYNCHRO
KARAOKE PON/MPX
REC
DOLBY NR
DIRECTION
DECK A
DECK B
CN504 11P
CN501 11P
CN505 8P
CN502 8P
CN506 8P
CN503 8P

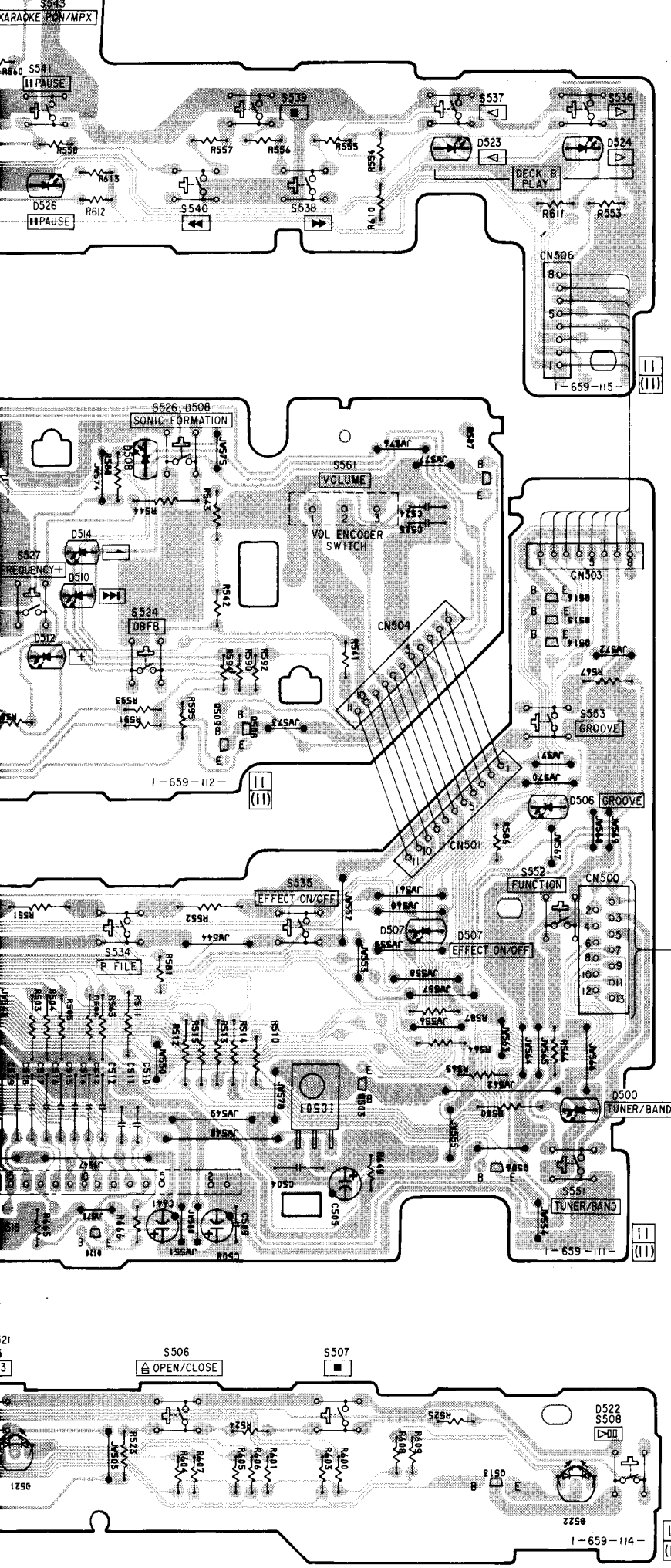

FLUORESCENT INDICATOR TUBE
IC500
IC500
μPC7802046F
DISPLAY
CONTROL
X500
5MHz
Q520
2SC2785
Q500-502
LED SELECT
SWITCH
Q503-506
LED
DRIVE
EDIT
REPEAT
PLAY MODE
1/ALL DISCS
DIGITAL ECHO
DSP
TIMER
CLIP C
CLIP B
CLIP A
CLIP ERASE
CLIP PLAY
DISPLAY/DEMO
EFFECT ON/OFF
P.FILE
MENU 4
MENU 3
MENU 2
MENU 1
GROOVE
FUNCTION
TUNER/BAND
MULTI-TIMER
SLEEP
SELECT
SET
TIMER
CLOCK SET
PTY
TUNER MEMORY
TUNER


GP1U57XB
IC501
GP1U57XB
OUT
5V
GND
LED54
LED55
LED56
LED57
VDD
LED11
LED12
LED13
SELECT/LED14
LED15
VSS
SIRCS
RBY_MD
JOG_A
VOL_A
AVREF
AVDD
KEY1
KEY2
KEY3
KEY4
TP504
TP503
TP502
TP505
R508 10k
R507 10k
R649 47
B+
B-
-27.1
VF
VF
VFDP (-25V)
5V
D.GND
RESET
RBY.MG
REQ.GM
CLK.MG
DATA.GM
DATA.MG
SPA.SIG
TO
MAIN BOARD
(1/2)
CN701
(Page 40)
CN500
13P
LOW
HIGH
Q500-502
LED SELECT
SWITCH
MULTI-TIMER
MULTI-TUNER
MULTI-CD
SLEEP
SELECT
SET
CLOCK SET
TIMER
PTY
STEREO/MONO
TUNER MEMORY
TUNING MODE
TUNER
EDIT
REPEAT
PLAY MODE
1/ALL DISCS
CD
Q517-519
LED
DRIVE



TO MAIN BOARD (1/2) CN701 (Page 40)


【JOG BOARD】
S545
KARAOKE PON/MPX
S544
CD SYNCHRO
S542
REC
S541
PAUSE
S555
DOLBY NR
S554
DIRECTION
S545
HIGH SPEED DUBBING
S539
S537
D523
DECK B PLAY
D525
REC
D526
PAUSE
S540
S538
CN506
S526, D508
SONIC FORMATION
S562
MULTI JOG STATION
AMS ENCODER SWITCH
S561
VOLUME
VOL ENCODER SWITCH
D515
S529
FREQUENCY−
D514
S527
FREQUENCY+
D511
D510
S528
ENTER/NEXT
S524
DBFB
D513
D512
D509
ENTER/NEXT
CN504
CN501
MULTI FUNCTION CONTROL
PLAY MODE
REPEAT
EDIT
S513
S514
S515
D531
ALL DISCS
D533
PLAY MODE
D535
REPEAT
D537
EDIT
D541
TUNING MODE
D543
TUNER MEMORY
D545
STEREO MONO
D547
PTY
D551
CLOCK SET
D553
SET
D555
SELECT
D557
SLEEP
CD MUSIC CLIP
S520
CLIP ERASE
S521
CLIP A
S522
CLIP B
S523
CLIP C
D505
D503
D501
S531
MENU 2
S532
MENU 3
S533
MENU 4
S535
EFFECT ON/OFF
S552
FUNCTION
D507
EFFECT ON/OFF
S534
P.FILE
S530
MENU 1
X500
IC500
IC501
FL501
S502
DISC SKIP EX-CHANGE
D516,517
S503
DISC 1
D518,519
S504
DISC 2
D520,521
S505
DISC 3
S506
OPEN/CLOSE
S507



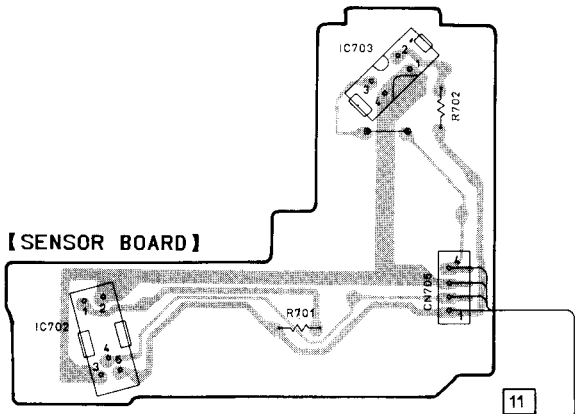
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D500	H-12	D545	F-5
D501	G-6	D547	E-6
D502	F-2	D549	F-3
D502A	F-2	D551	F-4
D503	G-5	D553	F-5
D504	E-2	D555	F-5
D504A	E-2	D557	E-6
D505	G-5	D559	H-3
D506	F-12	D560	H-2
D507	G-11	D561	H-2
D508	D-9	D562	H-3
D509	F-8	D563	I-4
D510	E-9		
D511	E-7		
D512	F-8	IC500	H-6
		IC501	H-10
D513	F-7		
D514	E-9		
D515	E-7	Q500	H-4
D516	K-6	Q501	G-3
D517	K-6	Q502	G-4
		Q503	H-10
D518	K-7	Q504	G-5
D519	K-7		
D520	K-8	Q505	G-5
D521	K-8	Q506	I-11
D522	K-12	Q507	D-11
		Q508	F-10
D523	B-11	Q509	F-10
D524	B-12		
D525	C-8	Q510	K-4
D526	C-8	Q511	K-4
D527	B-2	Q512	K-4
		Q513	K-11
D528	B-3	Q514	E-12
D529	E-3		
D531	E-4	Q515	E-12
D533	E-5	Q516	E-12
D535	E-5	Q517	G-2
		Q518	G-2
D537	E-6	Q519	G-2
D539	F-3		
D541	F-4	Q520	I-9
D543	F-5		

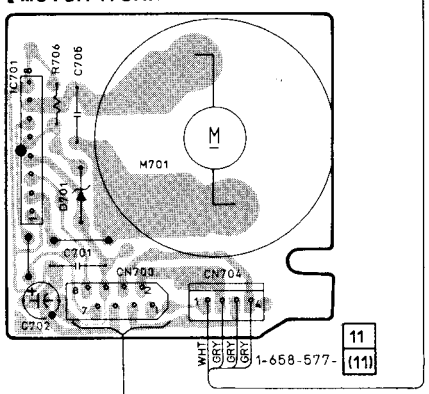
Note:

• O— : parts extracted from the component side.

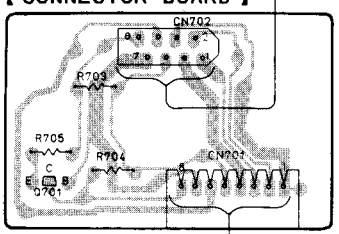
【SENSOR BOARD】



【MOTOR (TURN) BOARD】



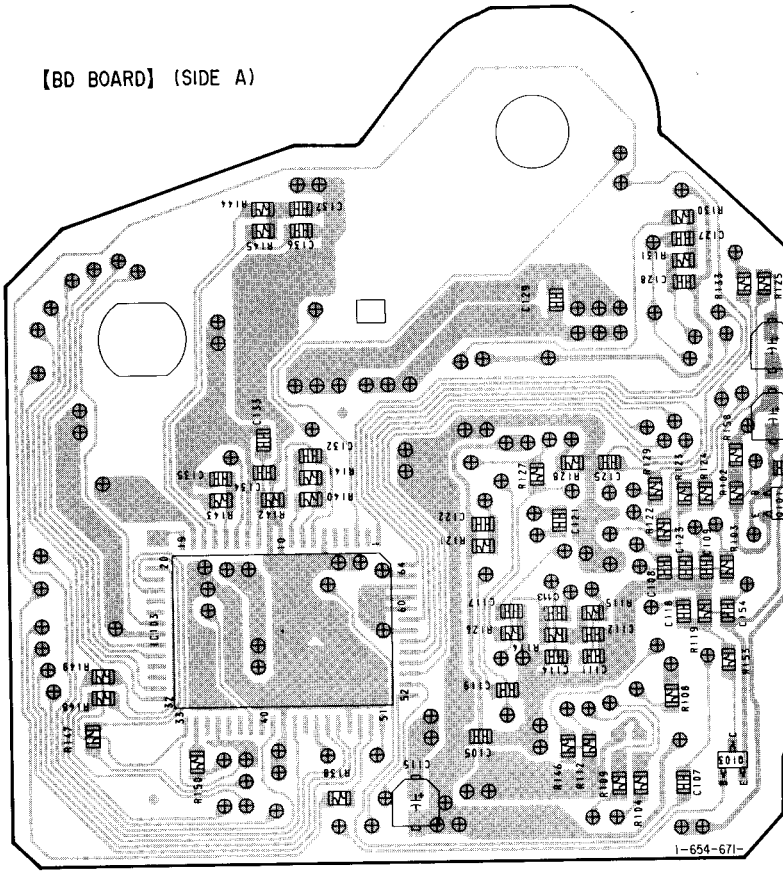
【CONNECTOR BOARD】



118

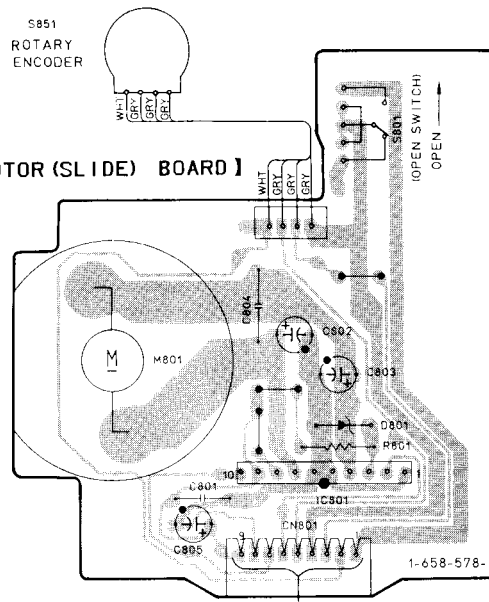
MAIN BOARD
CN202
(Page 33)

【BD BOARD】 (SIDE A)

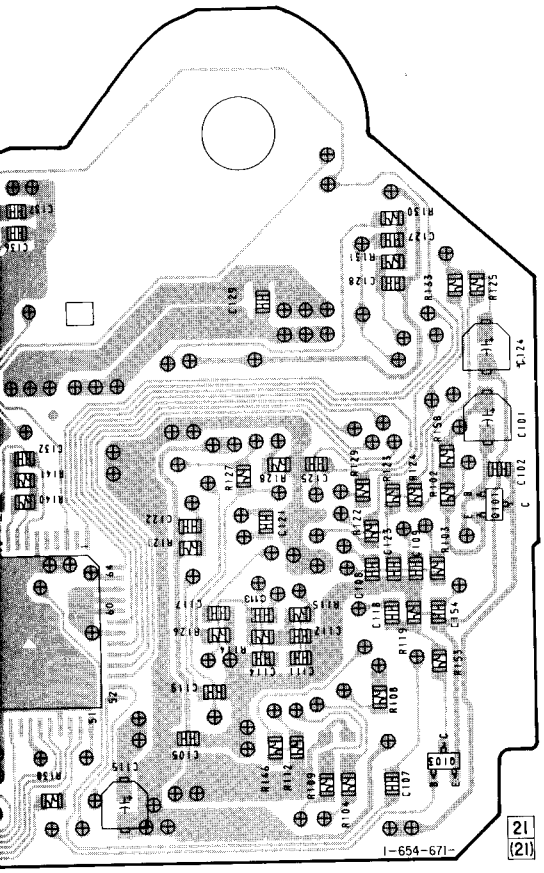


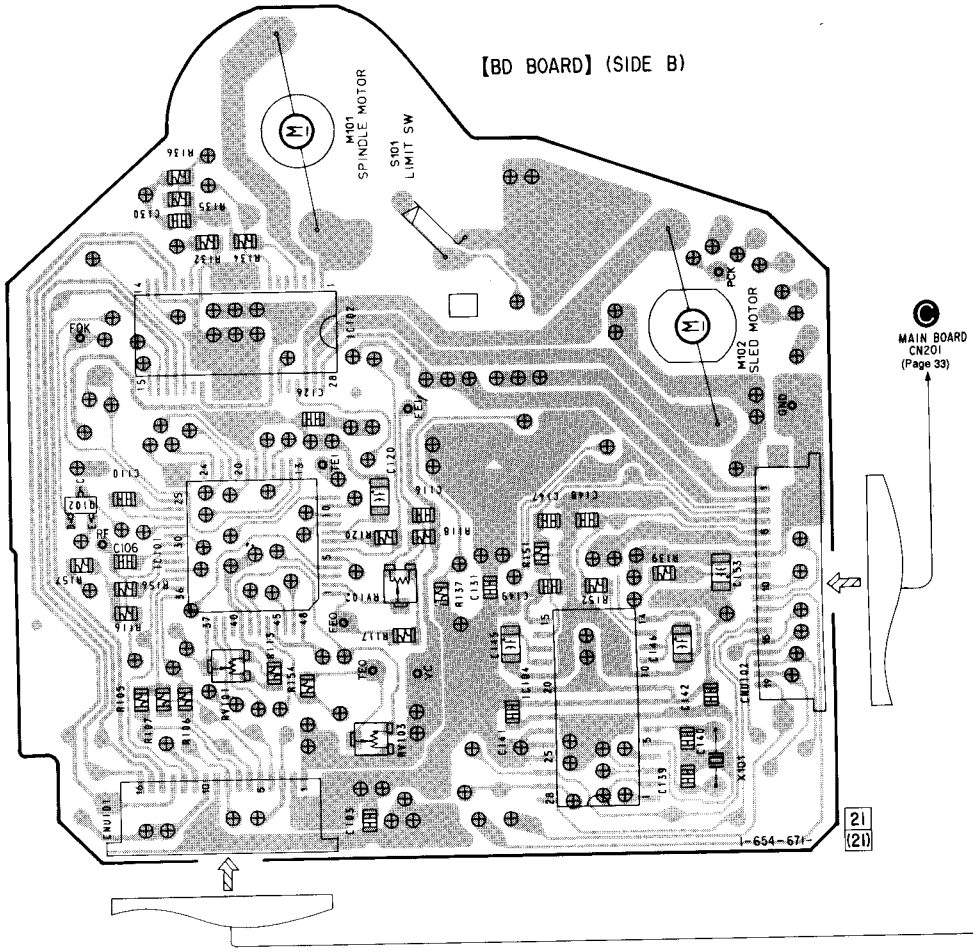
S851
ROTARY
ENCODER

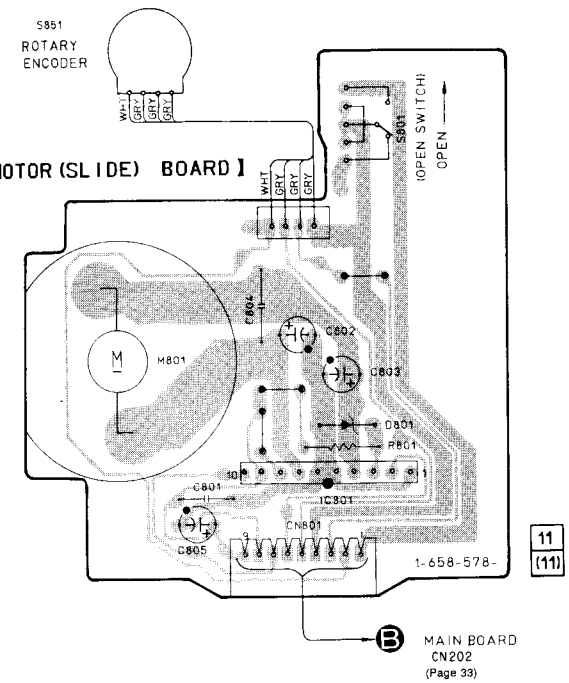
【MOTOR (SLIDE) BOARD】



B MAIN BOAR
CN202
(Page 33)







• SEMICONDUCTOR LOCATION

Ref. No.	Location
D701	E - 2
D801	I - 8
IC101	D - 12
IC102	C - 11
IC103	E - 6
IC104	E - 13
IC701	E - 2
IC702	C - 2
IC703	A - 3
IC801	J - 8
Q101	D - 9
Q102	D - 11
Q103	F - 9
Q701	H - 2

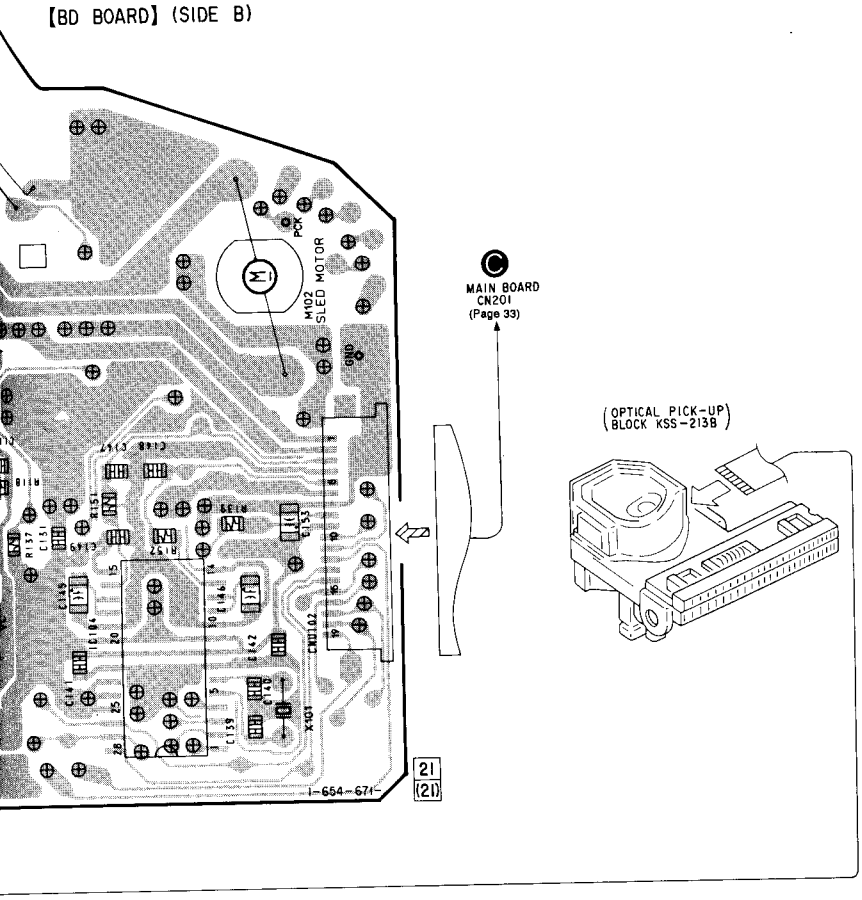
Note:

- O— : parts extracted from the component side.
- ⊗ : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

Pattern face side : Parts on the pattern face side seen from
(Conductor Side) the pattern face are indicated.
Parts face side : Parts on the parts face side seen from the
(Component side) parts face are indicated.

【BD BOARD】(SIDE B)



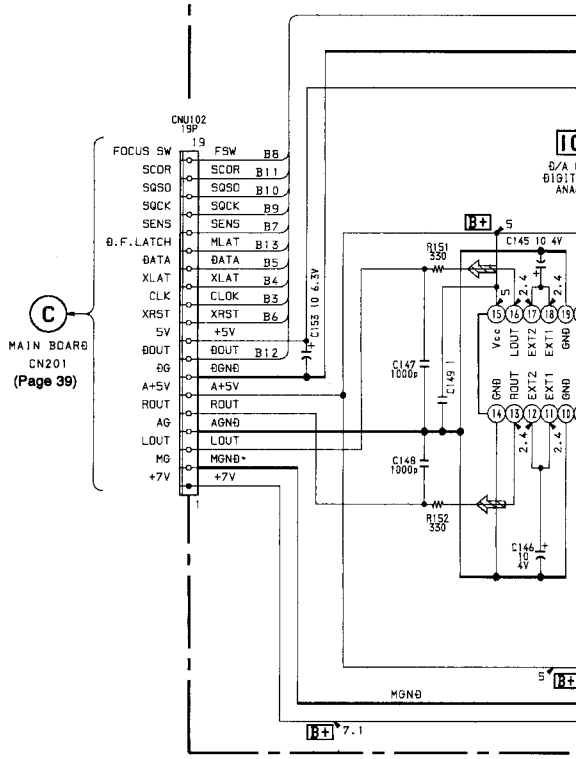
Note:

- O— : parts extracted from the component side.
- ⊗ : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

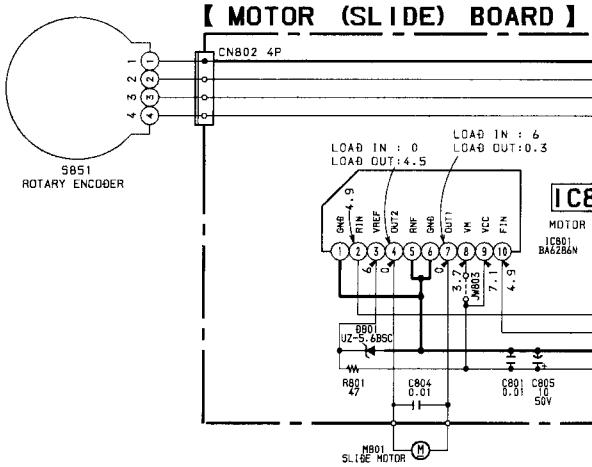
Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

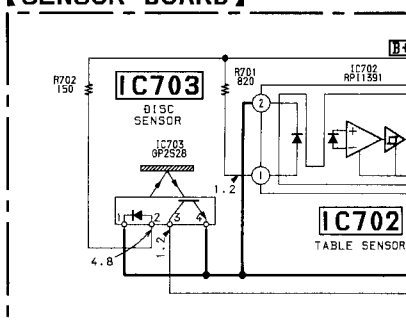
【 BD BOARD 】

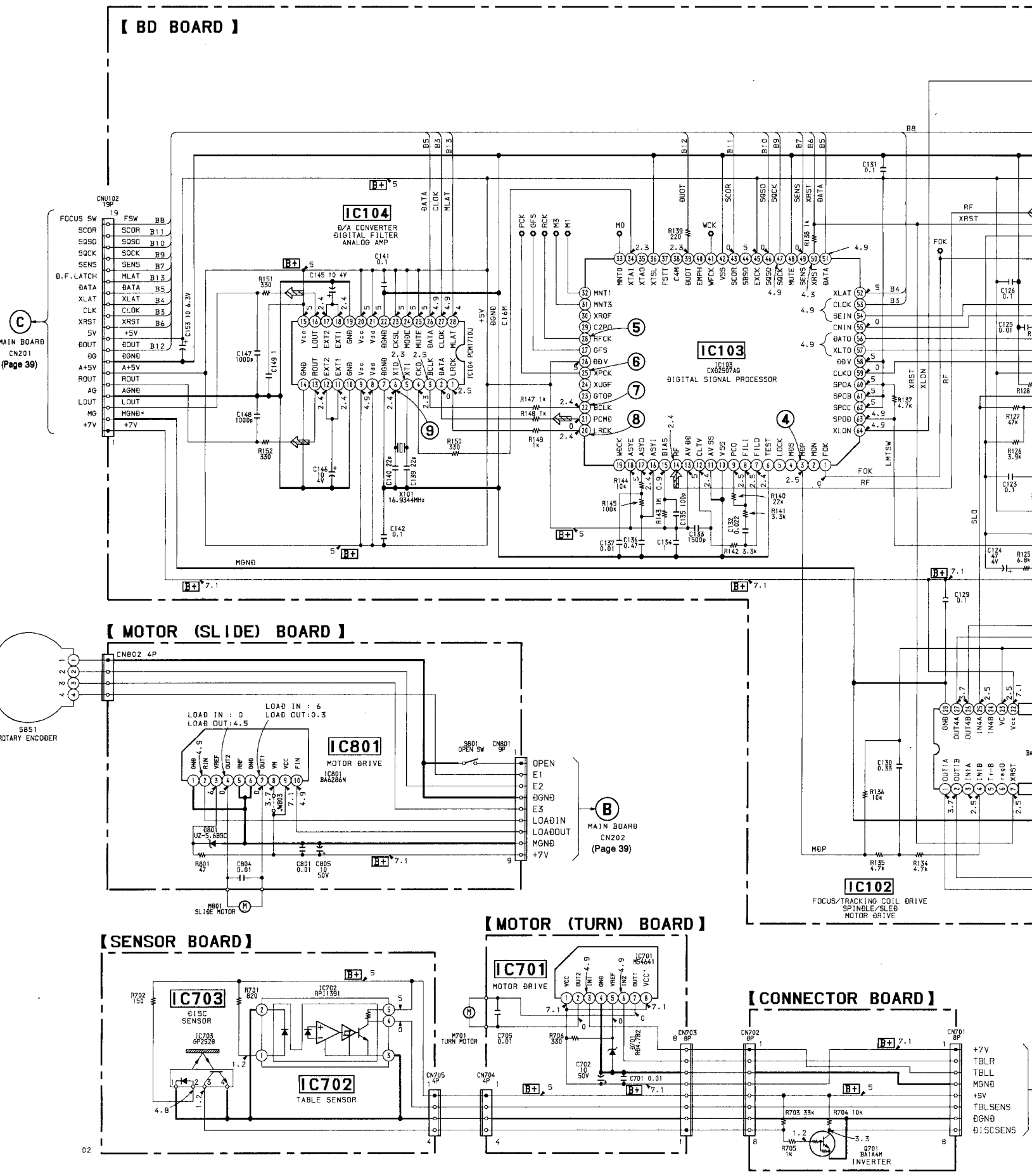


【 MOTOR (SLIDE) BOARD 】

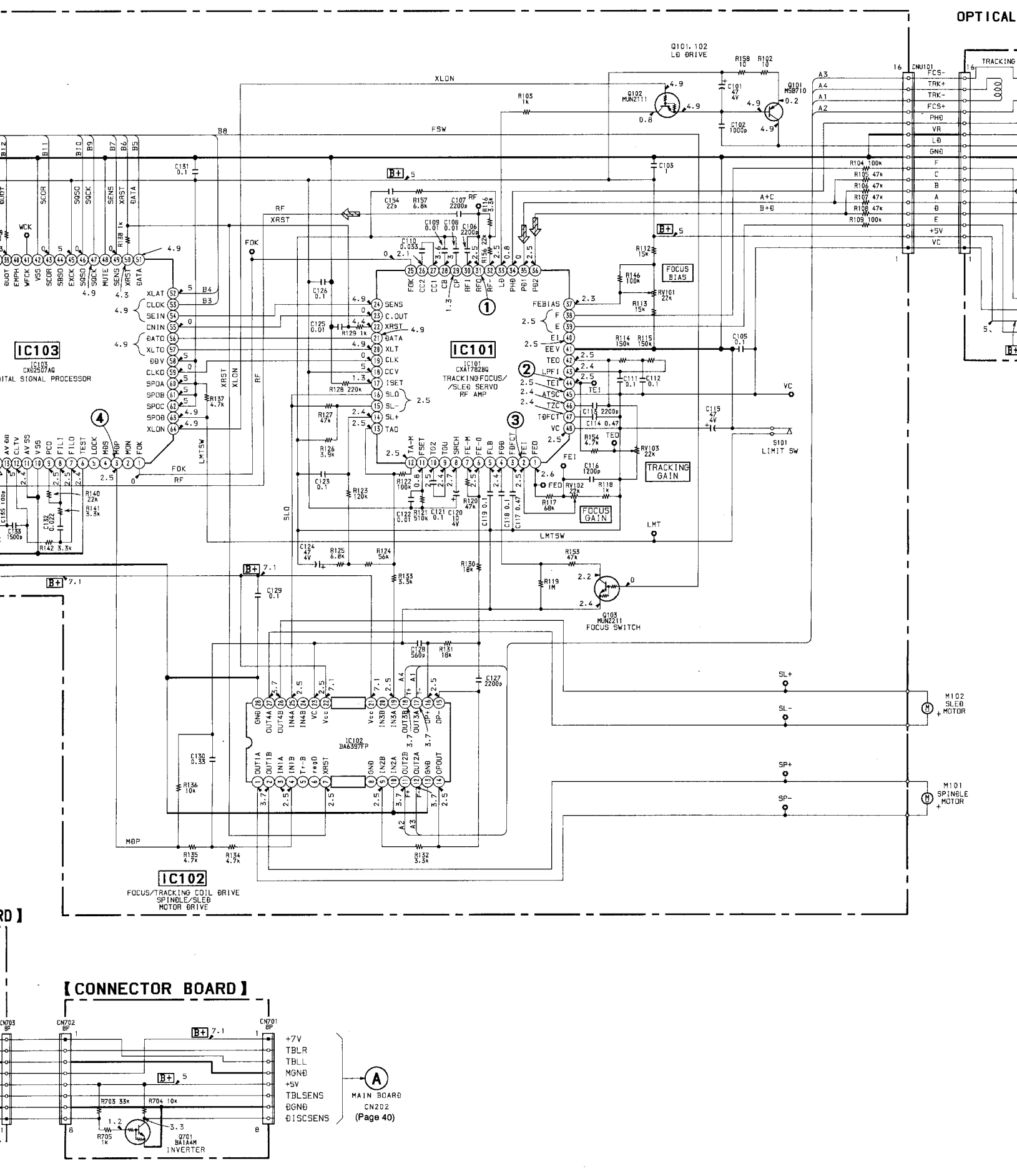


【SENSOR BOARD】

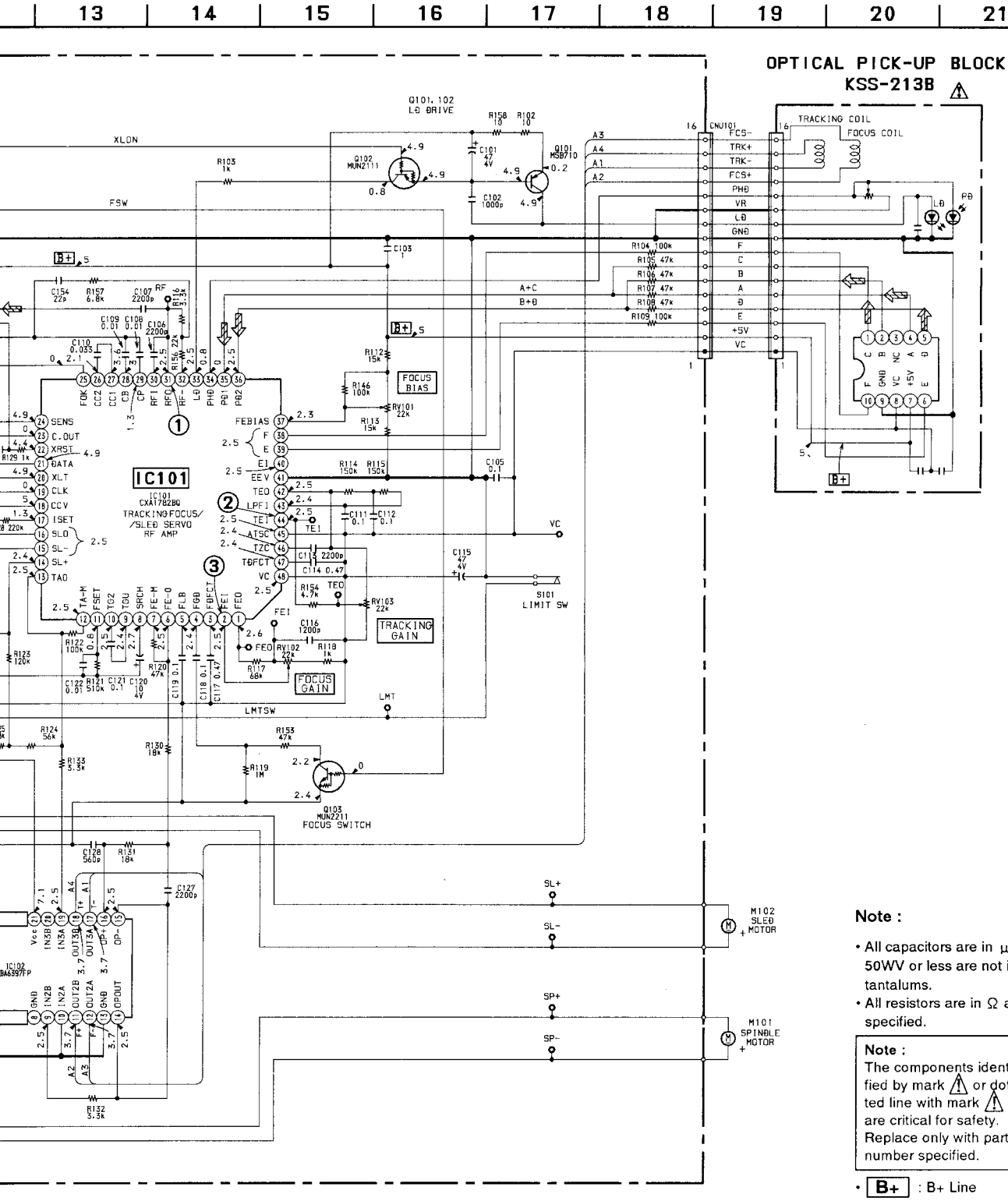



【 BD BOARD 】
IC104
Ø/A CONVERTER
ØIGITAL FILTER
ANALOG AMP
IC103
CXD2507AQ
ØIGITAL SIGNAL PROCESSOR
IC102
FOCUS/TRACKING COIL ØRIVE
SPINØLE/SLEØ
MOTOR ØRIVE
【 MOTOR (SLIDE) BOARD 】
IC801
MOTOR ØRIVE
IC801
BA6286N
SLIGE MOTOR
【SENSOR BOARD】
IC703
ØISC
SENSOR
IC703
GP2S28
IC702
TABLE SENSOR
IC702
RP1391
【MOTOR (TURN) BOARD】
IC701
MOTOR ØRIVE
IC701
M54641
M701
TURN MOTOR
【CONNECTOR BOARD】
Q701
BA1A4M
INVERTER
MAIN BOARØ
CN201
(Page 39)
MAIN BOARØ
CN202
(Page 39)
S851
ROTARY ENCOØER
S801
OPEN SW
X101
16.9344MHz
FOCUS SW
SCOR
SQSO
SQCK
SENS
Ø.F.LATCH
ØATA
XLAT
CLK
XRST
5V
ØOUT
ØG
A+5V
ROUT
AG
LOUT
MG
+7V
OPEN
E1
E2
ØGNØ
E3
LOAØIN
LOAØOUT
MGNØ
+7V
+7V
TBLR
TBLL
MGNØ
+5V
TBLSENS
ØGNØ
ØISCSENS

age 73 for IC Block Diagrams.



【CONNECTOR BOARD】



Note :

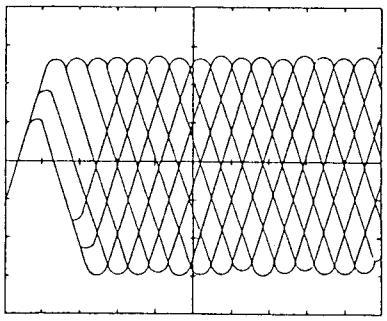
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note :** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

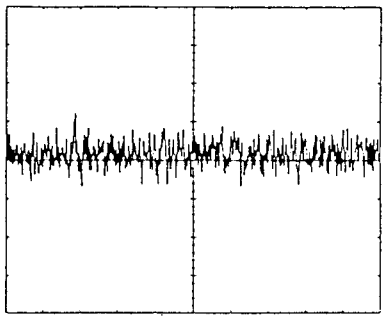
- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (CD) conditions.
  no mark : PLAY (CD)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

• WAVEFORMS – BD Section –

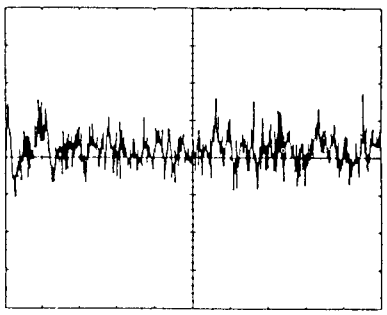
① IC101 ㉛ pin 1.4Vp-p



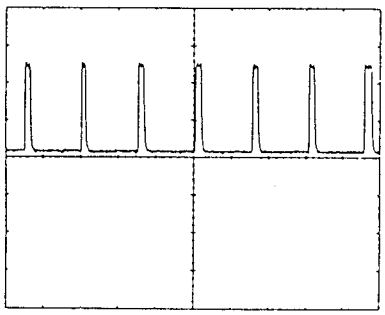
② IC101 ㊹ pin 8mVp-p 0.2ms/DIV



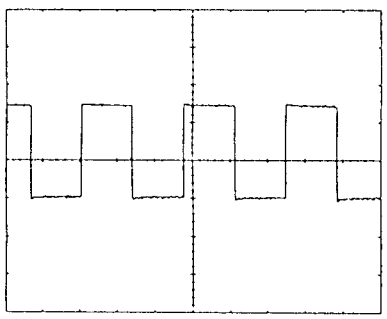
③ IC101 ② pin 20mVp-p 2ms/DIV



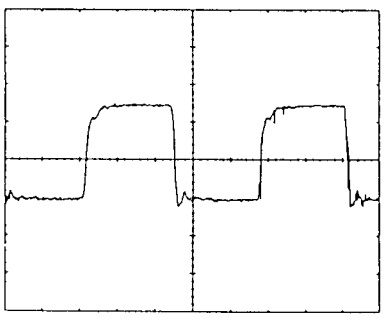
④ IC103 ③ pin 2.4Vp-p 7.5µsec



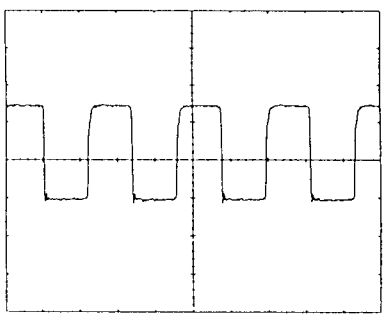
⑤ IC103 ㉘ pin 5.1Vp-p 137µsec



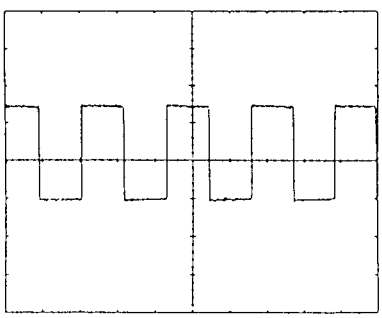
⑥ IC103 ㉕ pin 5.1Vp-p 232.7nsec



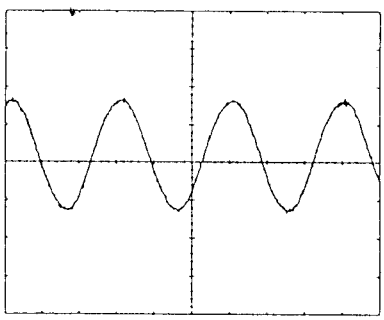
⑦ IC103 ㉒ pin 5.1Vp-p 472.7nsec



⑧ IC103 ⑳ pin 5.1Vp-p 23µsec



⑨ IC104 ⑥ pin 3Vp-p 16.9344MHz



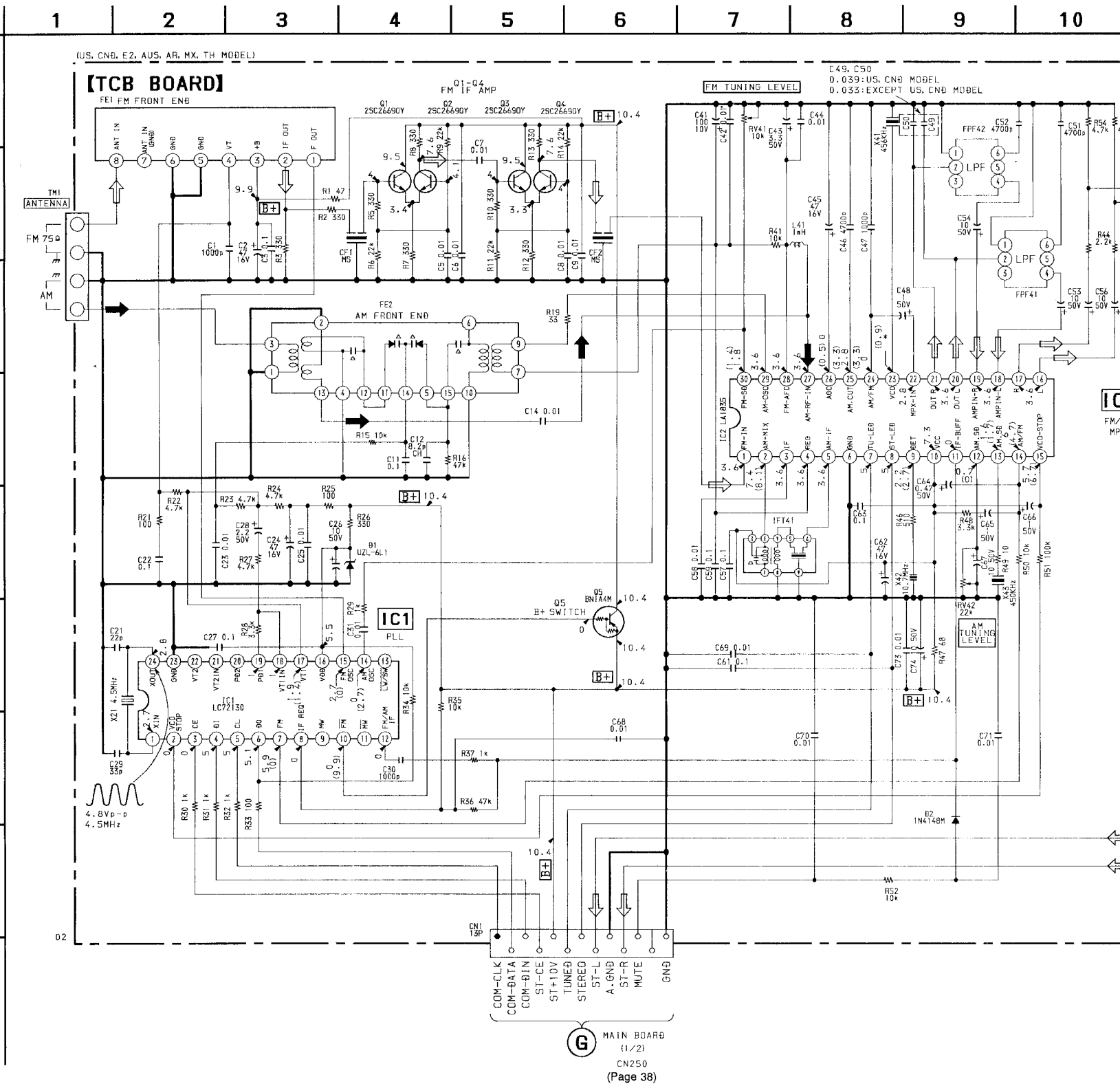
Note :

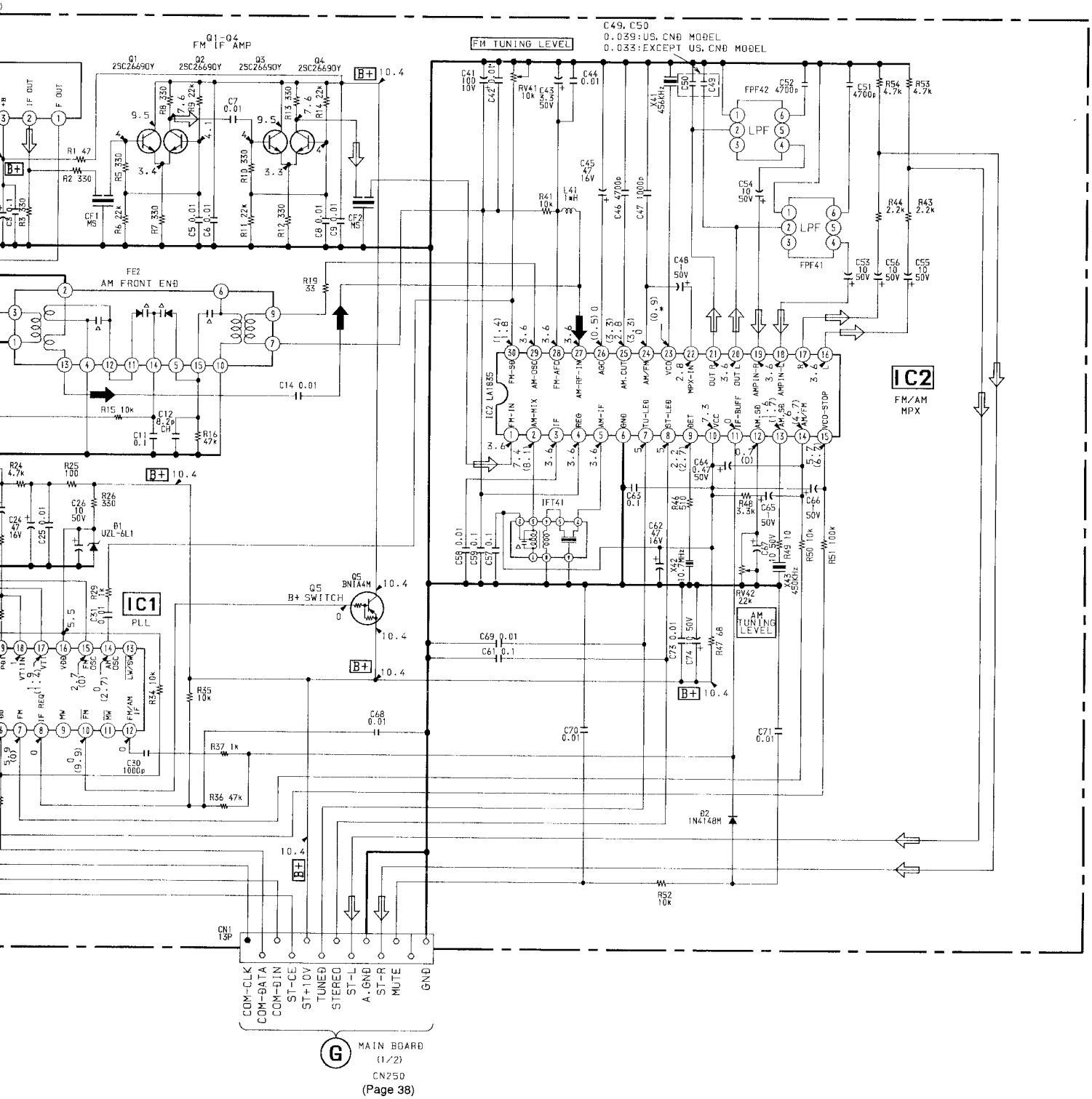
- All capacitors are in µ F unless otherwise noted. pF: µ µ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note :** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
- Abbreviation

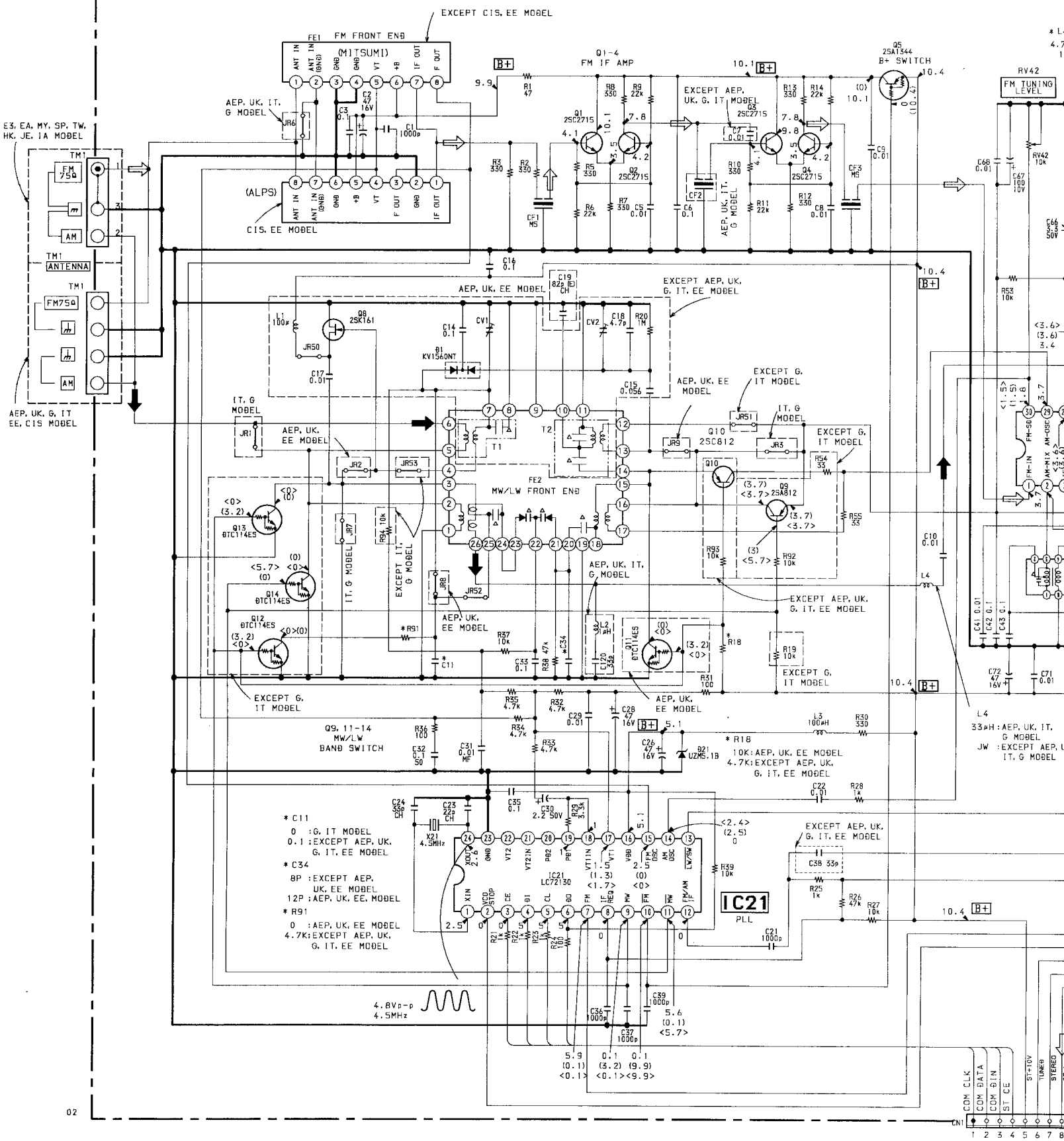
CND	: Canadian	JE	: Tourist
IT	: Italian	AR	: Argentine
G	: German	E2	: Tuner sections SW BAND do not exist.
EE	: East European		
IA	: Indonesia	E3	: Tuner sections SW BAND exist.
EA	: Saudi Arabia		
HK	: Hong Kong	MX	: Mexican
SP	: Singapore	TH	: Thailand
MY	: Malaysia	TW	: Taiwan
AUS	: Australian		

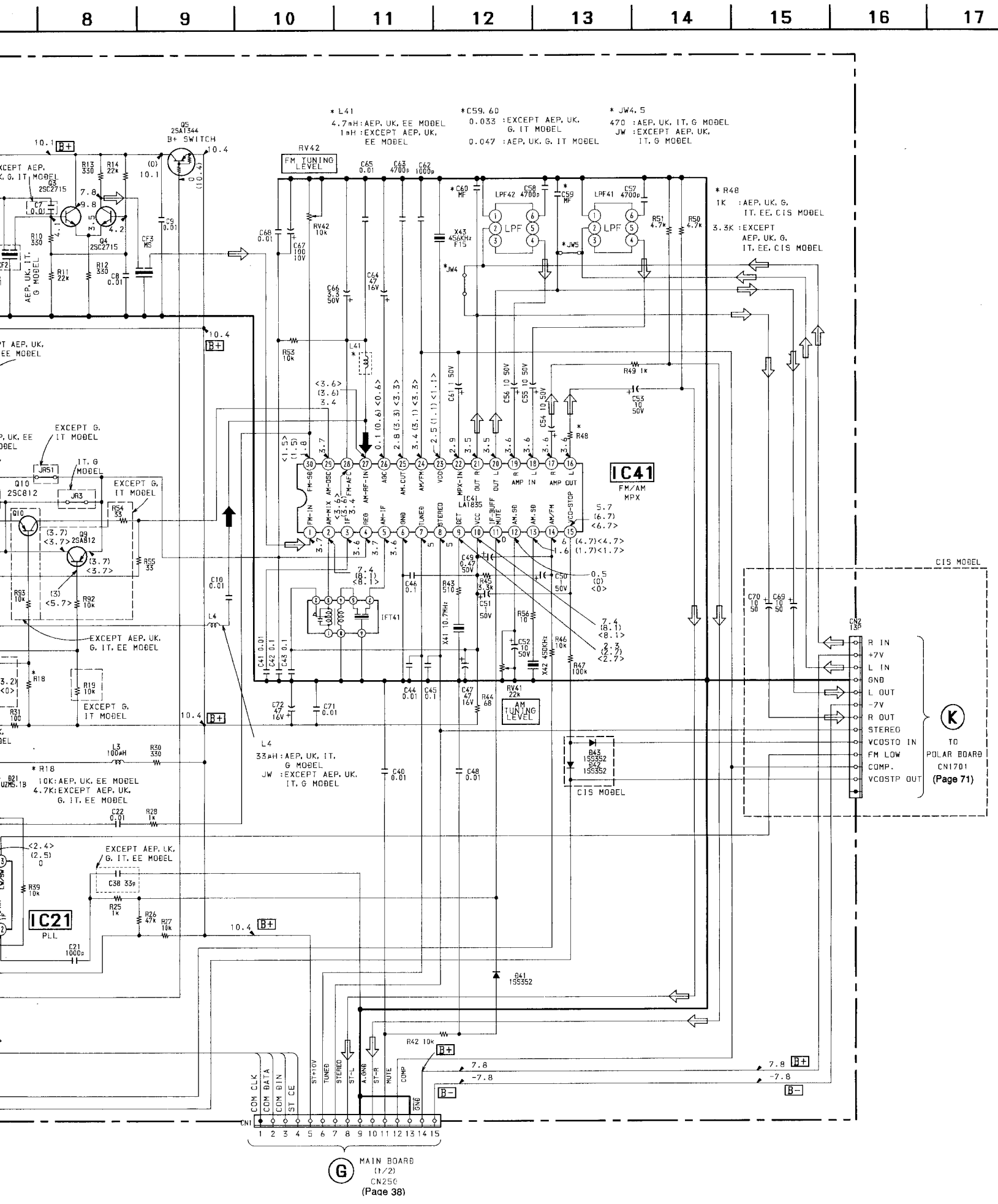

1
2
3
4
5
6
7
8
9
10
(US, CND, E2, AUS, AR, MX, TH MODEL)
【TCB BOARD】
FE1 FM FRONT END
Q1-Q4 FM IF AMP
Q1 2SC2669GY
Q2 2SC2669GY
Q3 2SC2669GY
Q4 2SC2669GY
FM TUNING LEVEL
C49, C50 0.039:US, CND MODEL 0.033:EXCEPT US, CND MODEL
TM1 ANTENNA
FM 75Ω
AM
FE2 AM FRONT END
IC1 PLL
IC1 LC72130
IC2 LA1835
IFT41
FPF42 4700p
FPF41
LPF
Q5 B+ SWITCH
Q5 BN1A4M
D1 UZL-6L1
D2 1N4148M
AM TUNING LEVEL
X21 4.5MHz
4.8Vp-p 4.5MHz
CN1 13P
COM-CLK
COM-DATA
COM-DIN
ST-CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
GND
G MAIN BOARD (1/2) CN250 (Page 38)
02

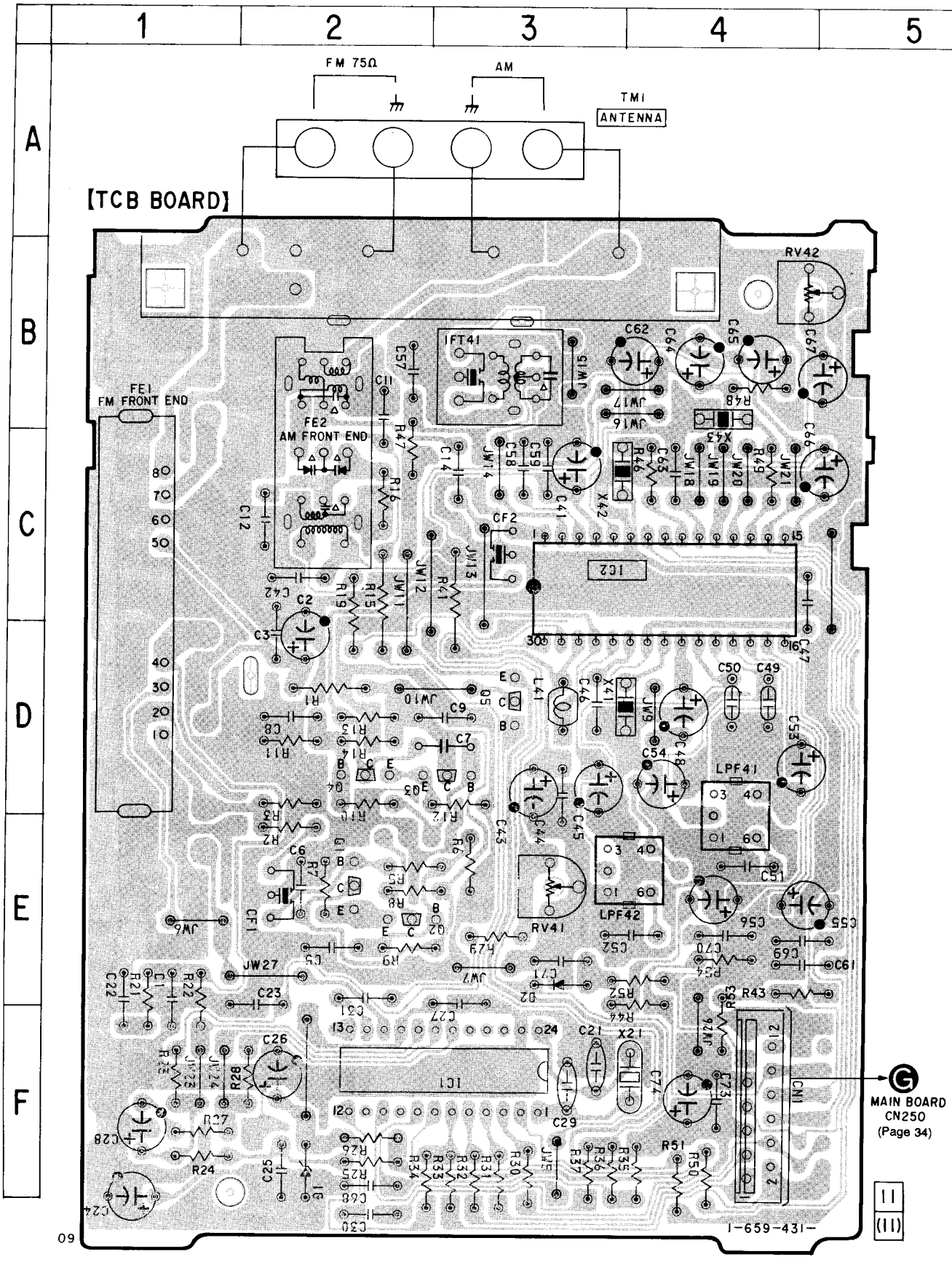

Q1-Q4
FM IF AMP
Q1 2SC2669OY
Q2 2SC2669OY
Q3 2SC2669OY
Q4 2SC2669OY
FM TUNING LEVEL
C49, C50
0.039:US, CND MODEL
0.033:EXCEPT US, CND MODEL
FE2
AM FRONT END
IC1
PLL
IC2
FM/AM MPX
IC2 LA1835
IFT41
Q5 2NJA4M
B+ SWITCH
D1 VZL-6L1
D2 1N4148M
AM TUNING LEVEL
LPF
FPF42
FPF41
CN1 13P
COM-CLK
COM-DATA
COM-DIN
ST-CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
GND
G MAIN BOARD (1/2) CN250
(Page 38)

(AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS, TW MODEL)

【TCB BOARD】




8
9
10
11
12
13
14
15
16
17
* L41
4.7mH : AEP, UK, EE MODEL
1mH : EXCEPT AEP, UK, EE MODEL
*C59, 60
0.033 : EXCEPT AEP, UK, G, IT MODEL
0.047 : AEP, UK, G, IT MODEL
* JW4, 5
470 : AEP, UK, IT, G MODEL
JW : EXCEPT AEP, UK, IT, G MODEL
* R48
1K : AEP, UK, G, IT, EE, CIS MODEL
3.3K : EXCEPT AEP, UK, G, IT, EE, CIS MODEL
RV42
FM TUNING LEVEL
Q5
2SA1344
B+ SWITCH
IC41
FM/AM MPX
LA1835
IC21
PLL
RV41
22k
AM TUNING LEVEL
X43
456KHz
X41
10.7MHz
X42
450KHz
IFT41
L4
33μH : AEP, UK, IT, G MODEL
JW : EXCEPT AEP, UK, IT, G MODEL
* R18
10K : AEP, UK, EE MODEL
4.7K : EXCEPT AEP, UK, G, IT, EE MODEL
EXCEPT AEP, UK, G, IT, EE MODEL
EXCEPT G, IT MODEL
IT, G MODEL
CIS MODEL
R IN
+7V
L IN
GND
L OUT
-7V
R OUT
STEREO
VCOSTO IN
FM LOW
COMP.
VCOSTP OUT
TO POLAR BOARD CN1701 (Page 71)
COM CLK
COM DATA
COM BIN
ST CE
ST+10V
TUNED
STEREO
ST-L
A.GND
ST-R
MUTE
COMP
GND
MAIN BOARD (1/2) CN250 (Page 38)



● SEMICO
LOCATI

Ref. No.
D1
D2
IC1
IC2
Q1
Q2
Q3
Q4
Q5

Note:

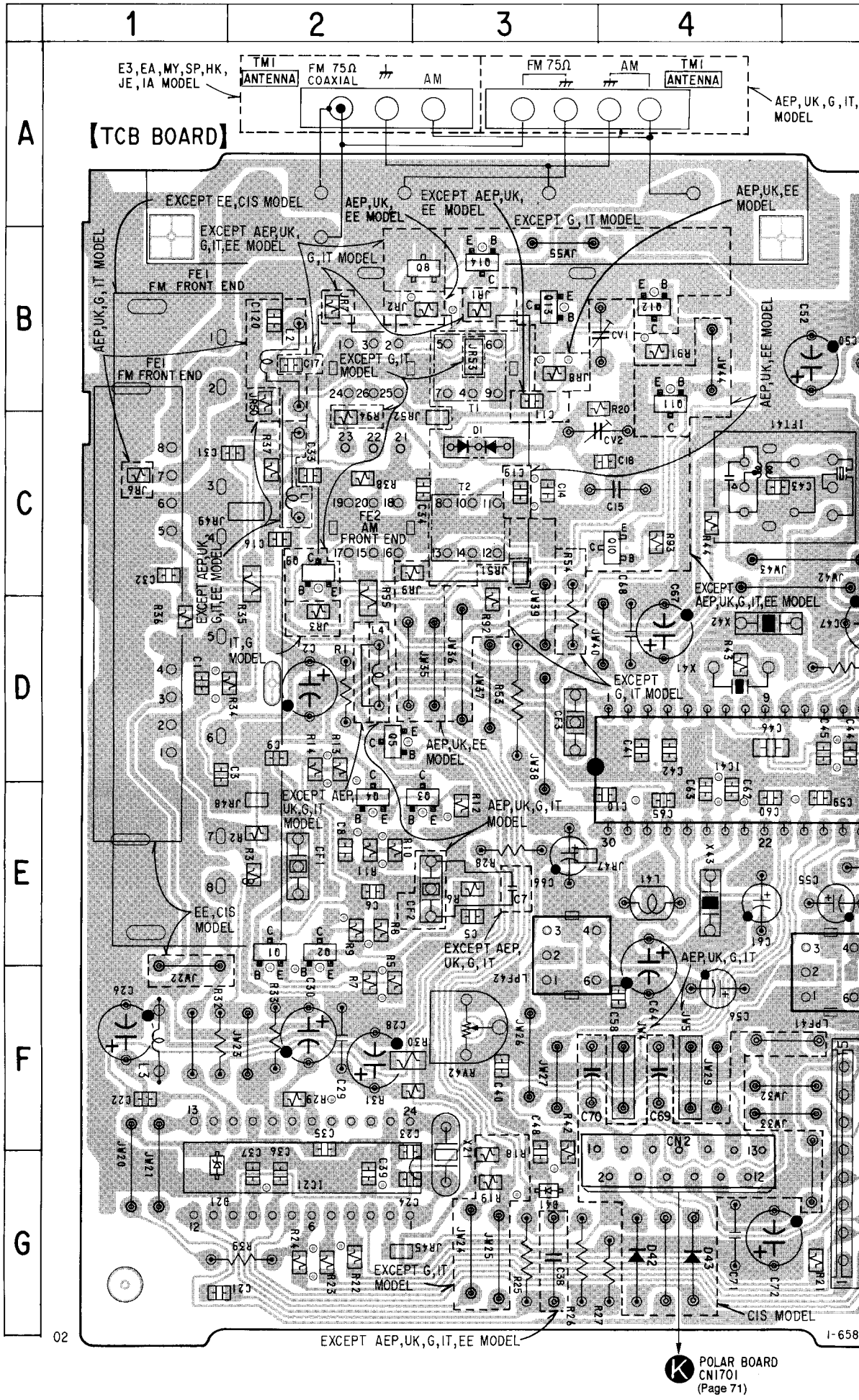
- ○— : parts extracted fr
- ▒▒ : Pattern on the s

- Abbreviation
  CND : Canadian
  AUS : Australian
  AR : Argentine
  MX : Mexican
  TH : Thailand

(AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS MODEL)

- **SEMICONDUCTOR LOCATION**

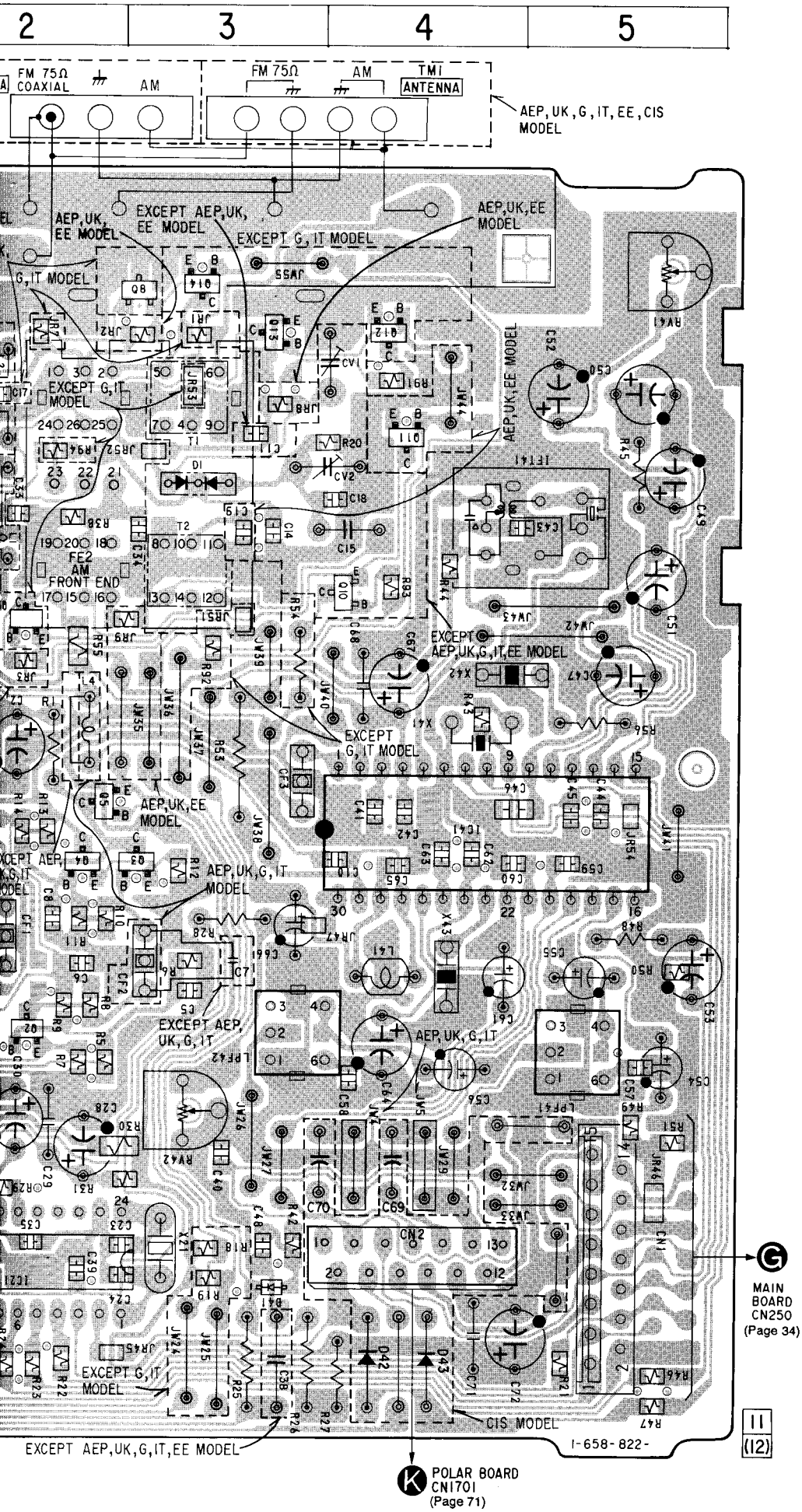
Ref. No.	Location
D1	F - 2
D2	E - 3
IC1	F - 3
IC2	C - 3
Q1	E - 2
Q2	E - 2
Q3	D - 3
Q4	D - 2
Q5	D - 3



parts extracted from the component side.
: Pattern on the side which is seen.

ation
Canadian
Australian
Argentine
Mexican
Thailand

, HK, JE, IA, EE, CIS MODEL)



• SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	C - 3
D21	G - 1
D41	G - 3
D42	G - 4
D43	G - 4
Q1	E - 2
Q2	E - 2
Q3	E - 3
Q4	E - 2
Q5	D - 2
Q8	B - 3
Q9	C - 2
Q10	C - 4
Q11	B - 4
Q12	B - 4
Q13	B - 3
Q14	B - 3
IC21	G - 2
IC41	D - 4

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - G : German
  - IT : Italian
  - EE : East European
  - EA : Saudi Arabia
  - MY : Malaysia
  - SP : Singapore
  - HK : Hong Kong
  - JE : Tourist
  - IA : Indonesia
  - TW : Taiwan

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

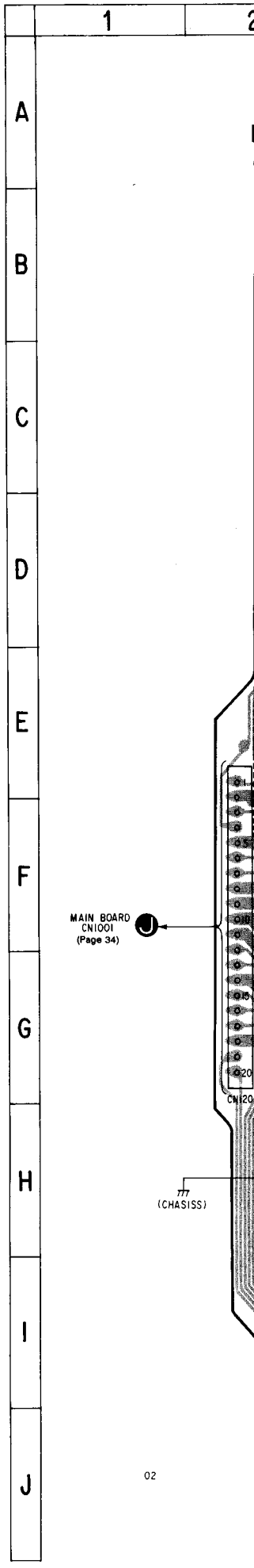
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.

  ⇨ : FM
- Abbreviation

CND	: Canadian	HK	: Hong Kong
AUS	: Australian	JE	: Tourist
AR	: Argentine	IA	: Indonesia
MX	: Mexican	G	: German
TH	: Thailand	IT	: Italian
EA	: Saudi Arabia	EE	: East European
MY	: Malaysia	TW	: Taiwan
SP	: Singapore		

• SEMICONDUCTOR LOCATION

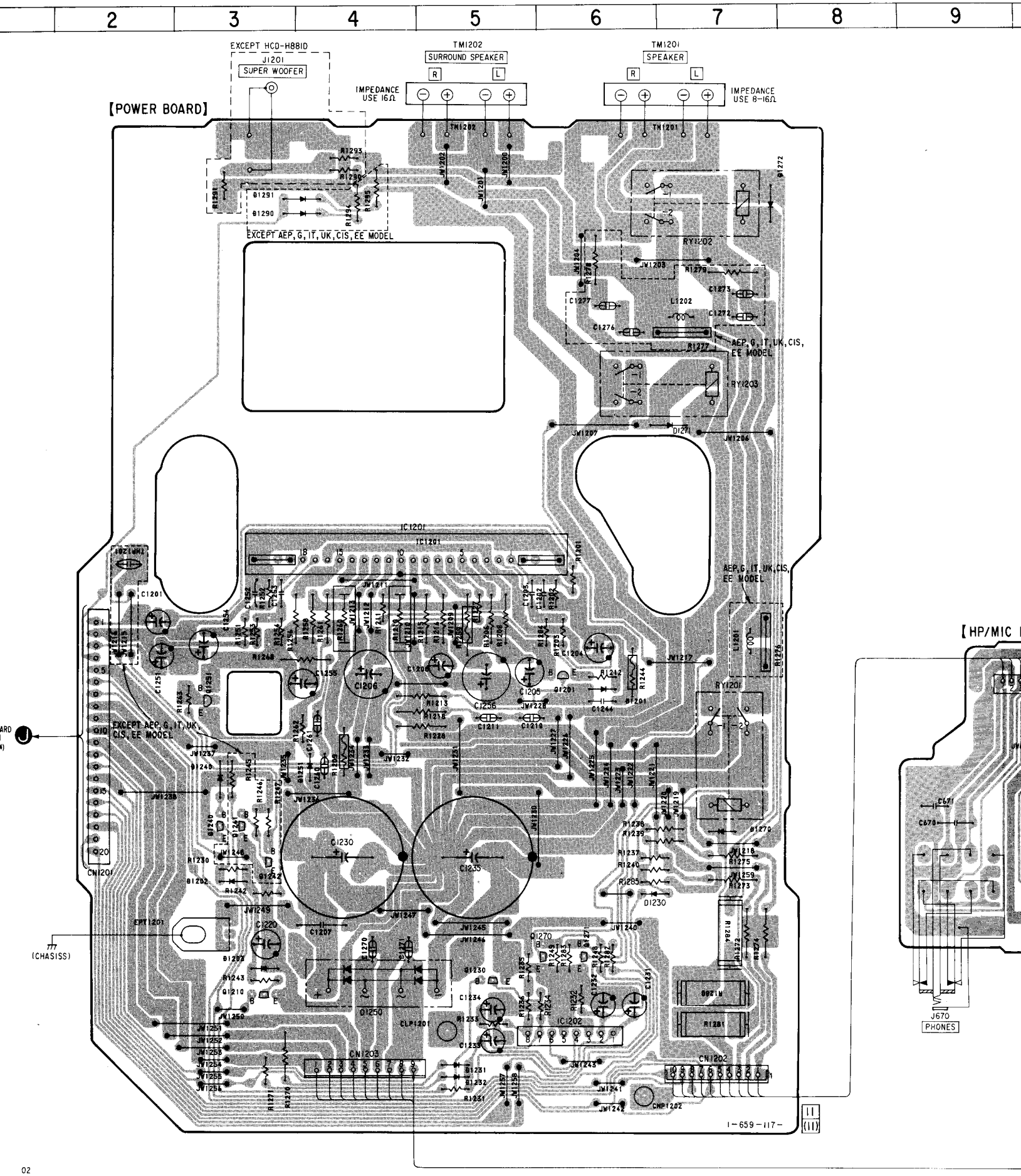
Ref. No.	Location
D1201	F - 6
D1202	H - 3
D1203	H - 3
D1230	H - 6
D1231	I - 5
D1232	I - 5
D1240	G - 3
D1250	H - 4
D1251	G - 4
D1270	G - 7
D1271	D - 7
D1272	B - 7
D1290	B - 4
D1291	B - 4
IC670	G - 10
IC1201	E - 4
IC1202	I - 6
Q1201	F - 6
Q1210	H - 3
Q1230	H - 5
Q1240	G - 3
Q1241	G - 3
Q1242	G - 3
Q1251	F - 3
Q1270	H - 6
Q1271	H - 6

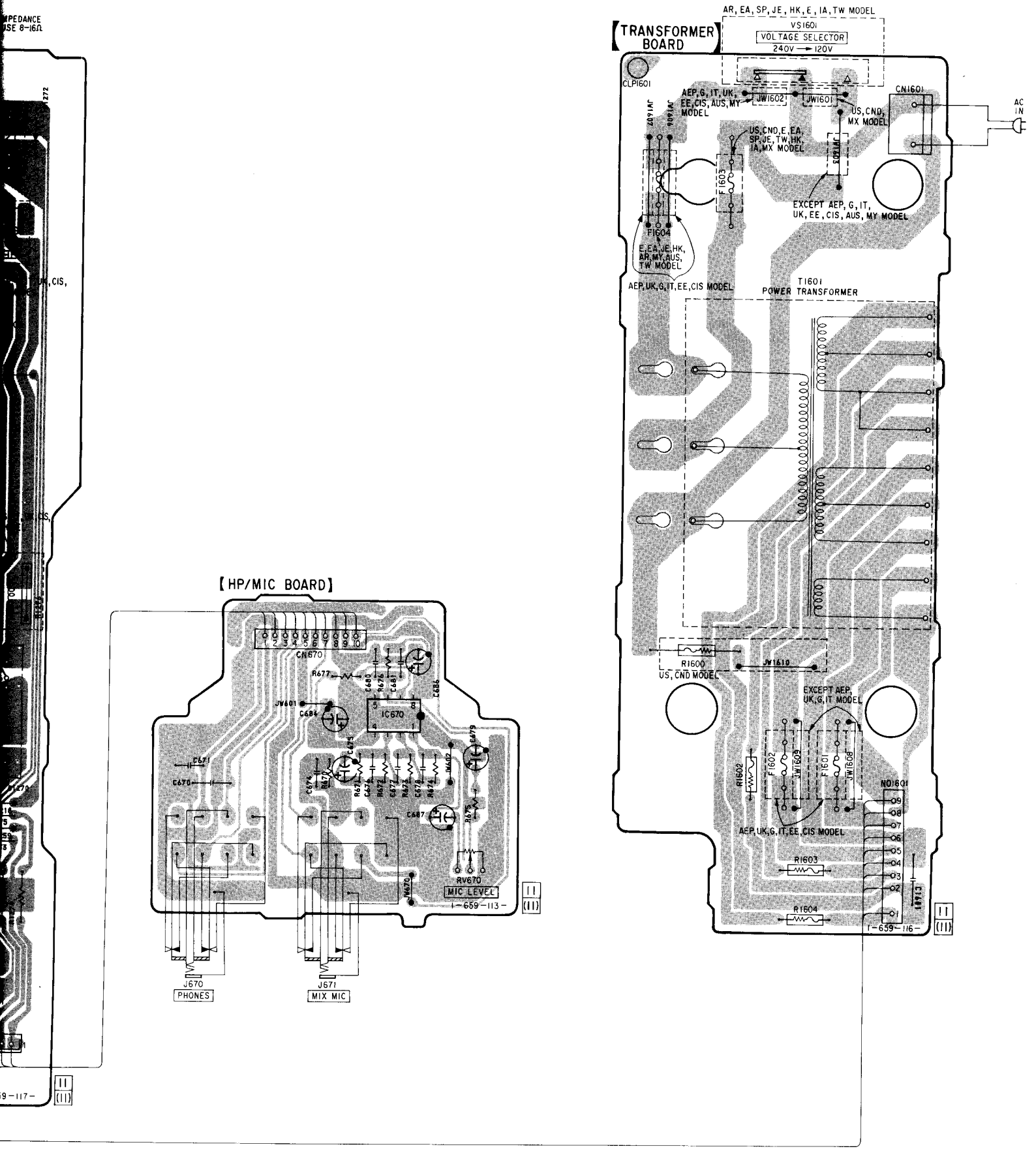


Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation

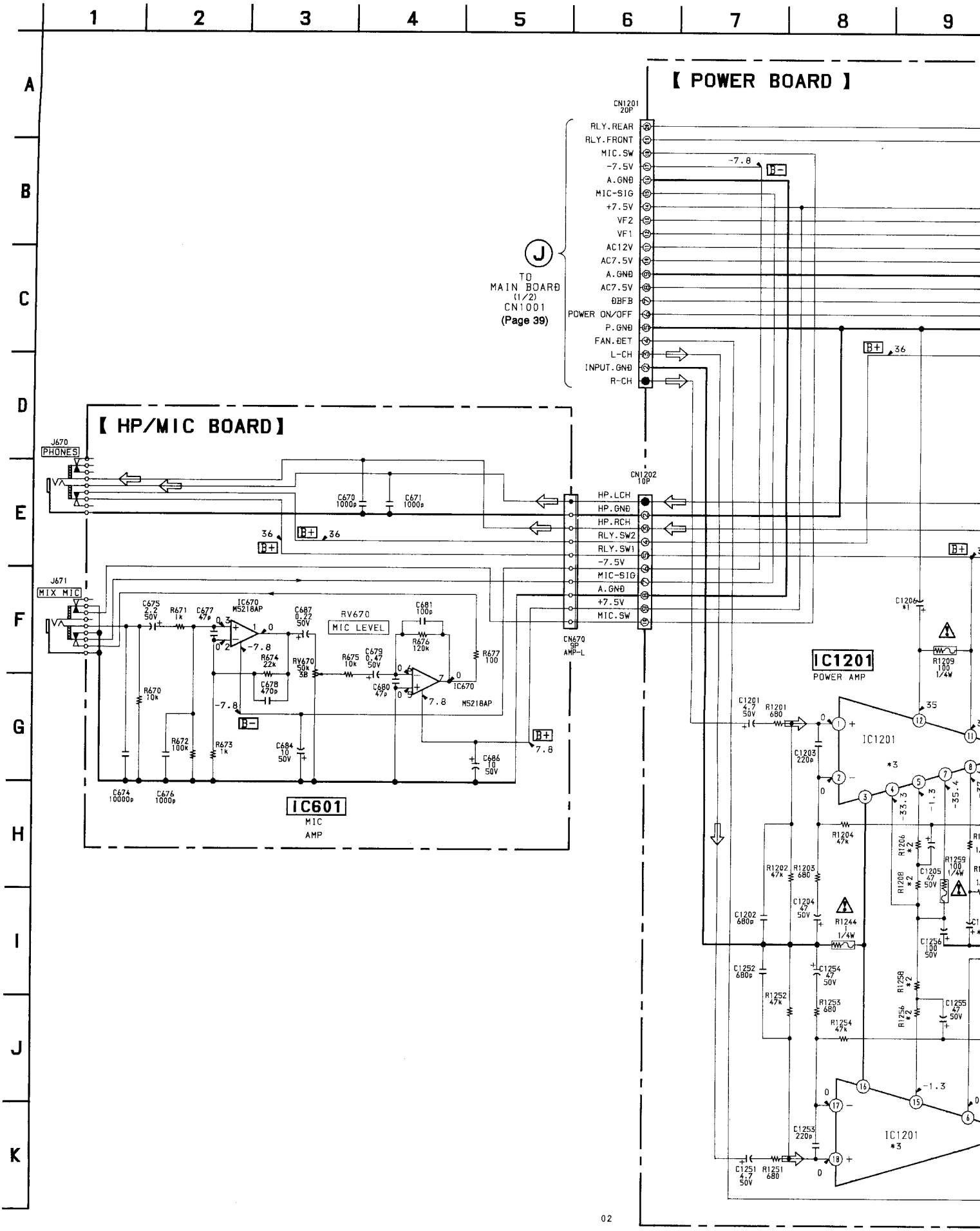
CND	: Canadian	SP	: Singapore
AUS	: Australian	HK	: Hong Kong
AR	: Argentine	JE	: Tourist
MX	: Mexican	IA	: Indonesia
TH	: Thailand	G	: German
EA	: Saudi Arabia	IT	: Italian
MY	: Malaysia	EE	: East European


2
3
4
5
6
7
8
9
EXCEPT HCD-H88ID
J1201
SUPER WOOFER
TM1202
SURROUND SPEAKER
R
L
IMPEDANCE
USE 16Ω
TM1201
SPEAKER
R
L
IMPEDANCE
USE 8-16Ω
【POWER BOARD】
EXCEPT AEP, G, IT, UK, CIS, EE MODEL
RY1202
AEP, G, IT, UK, CIS, EE MODEL
RY1203
AEP, G, IT, UK, CIS, EE MODEL
IC1201
RY1201
EXCEPT AEP, G, IT, UK, CIS, EE MODEL
【HP/MIC
J670
PHONES
CN1201
CN1203
CN1202
IC1202
CLP1201
EPT1201
(CHASISS)
1-659-117-


AR, EA, SP, JE, HK, E, IA, TW MODEL
VS1601
VOLTAGE SELECTOR
240V → 120V
【TRANSFORMER BOARD】
CLP1601
CN1601
AC IN
JW1602
JW1601
AEP, G, IT, UK, EE, CIS, AUS, MY MODEL
US, CND, MX MODEL
US, CND, E, EA, SP, JE, TW, HK, IA, MX MODEL
JW1603
F1603
F1604
EXCEPT AEP, G, IT, UK, EE, CIS, AUS, MY MODEL
E, EA, JE, HK, AR, MY, AUS, TW MODEL
AEP, UK, G, IT, EE, CIS MODEL
T1601
POWER TRANSFORMER
R1600
US, CND MODEL
JW1610
EXCEPT AEP, UK, G, IT MODEL
R1602
F1602
JW1609
F1601
JW1608
NO1601
AEP, UK, G, IT, EE, CIS MODEL
R1603
R1604
C1601
-659-116-
【HP/MIC BOARD】
CN670
IC670
JW601
RV670
MIC LEVEL
-659-113-
J670
PHONES
J671
MIX MIC

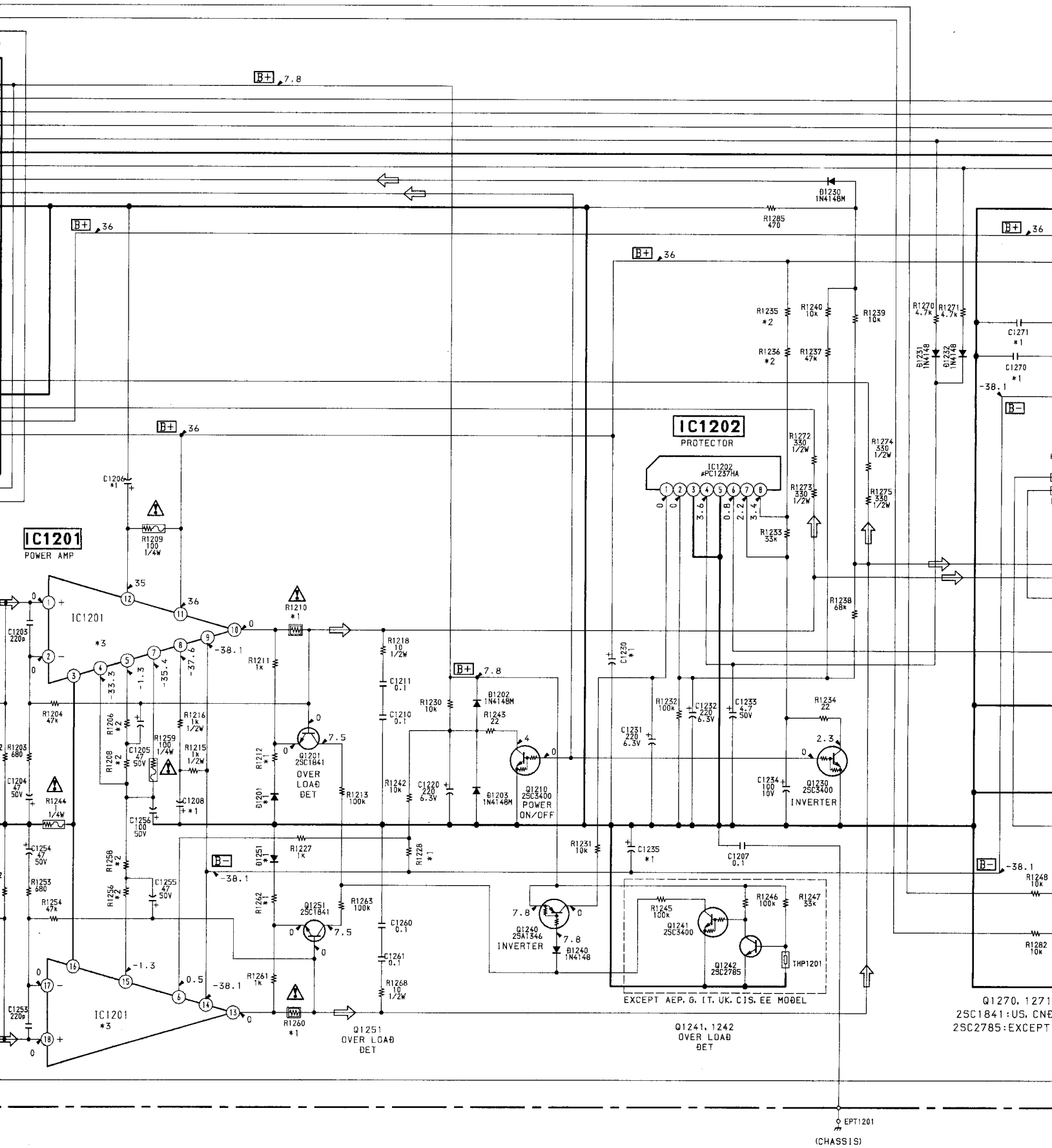
● Refer to page 60 for note.

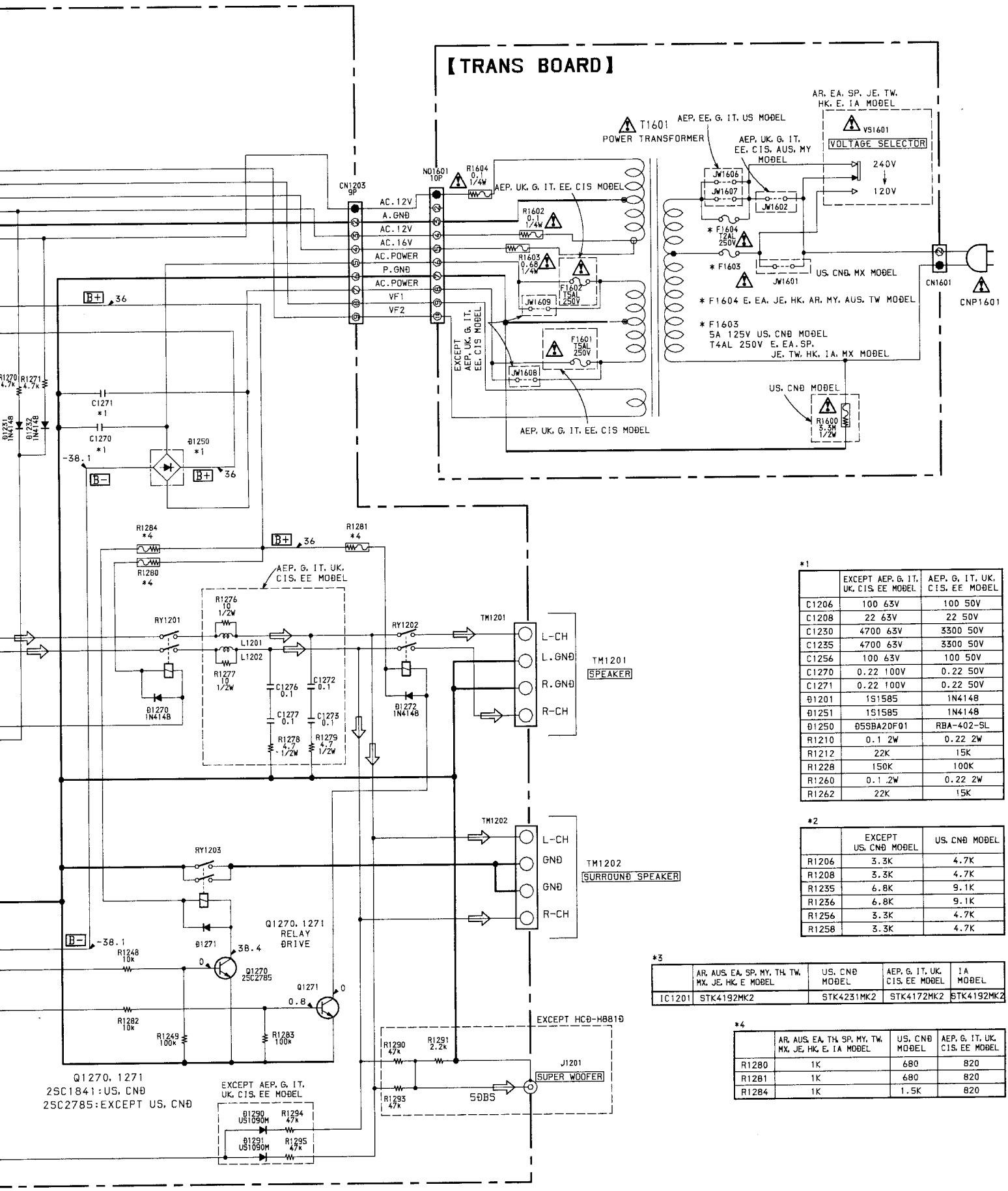
● Refer to page 73 for IC Block Diagrams.



8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17

DARD]





*1

	EXCEPT AEP, G, IT, UK, CIS, EE MODEL	AEP, G, IT, UK, CIS, EE MODEL
C1206	100 63V	100 50V
C1208	22 63V	22 50V
C1230	4700 63V	3300 50V
C1235	4700 63V	3300 50V
C1256	100 63V	100 50V
C1270	0.22 100V	0.22 50V
C1271	0.22 100V	0.22 50V
D1201	1S1585	1N4148
D1251	1S1585	1N4148
D1250	D5SBA20F01	RBA-402-SL
R1210	0.1 2W	0.22 2W
R1212	22K	15K
R1228	150K	100K
R1260	0.1 2W	0.22 2W
R1262	22K	15K

*2

	EXCEPT US, CND MODEL	US, CND MODEL
R1206	3.3K	4.7K
R1208	3.3K	4.7K
R1235	6.8K	9.1K
R1236	6.8K	9.1K
R1256	3.3K	4.7K
R1258	3.3K	4.7K

*3

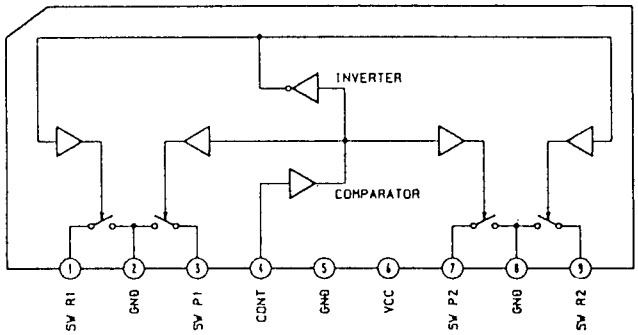
	AR, AUS, EA, SP, MY, TH, TW, MX, JE, HK, E MODEL	US, CND MODEL	AEP, G, IT, UK, CIS, EE MODEL	IA MODEL
IC1201	STK4192MK2	STK4231MK2	STK4172MK2	STK4192MK2

*4

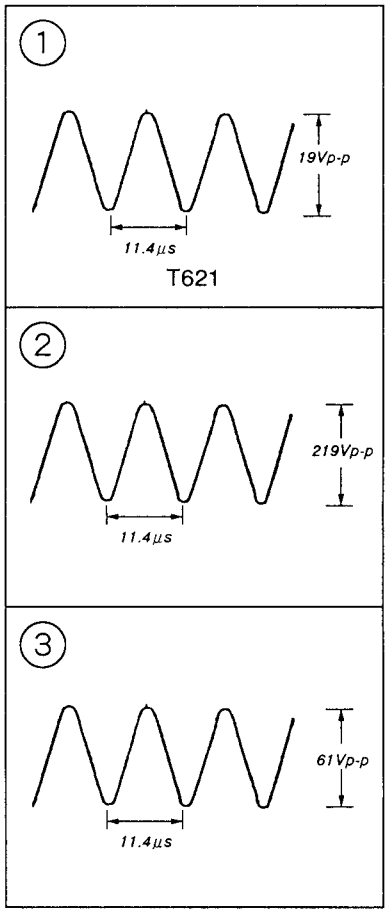
	AR, AUS, EA, TH, SP, MY, TW, MX, JE, HK, E, IA MODEL	US, CND MODEL	AEP, G, IT, UK, CIS, EE MODEL
R1280	1K	680	820
R1281	1K	680	820
R1284	1K	1.5K	820

• IC BLOCK DIAGRAM

IC602 μPC1330HA



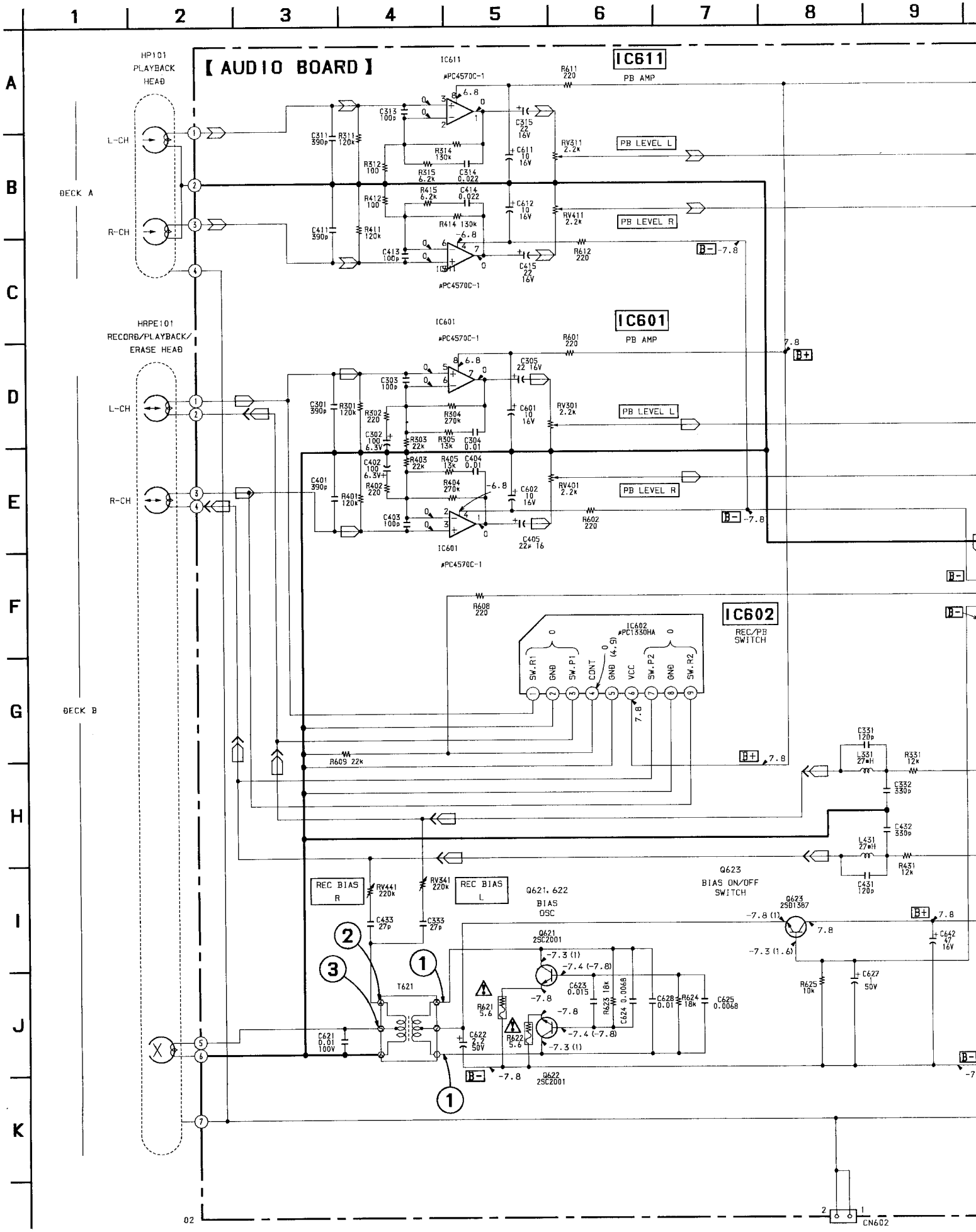
• WAVEFORMS – AUDIO SECTION –

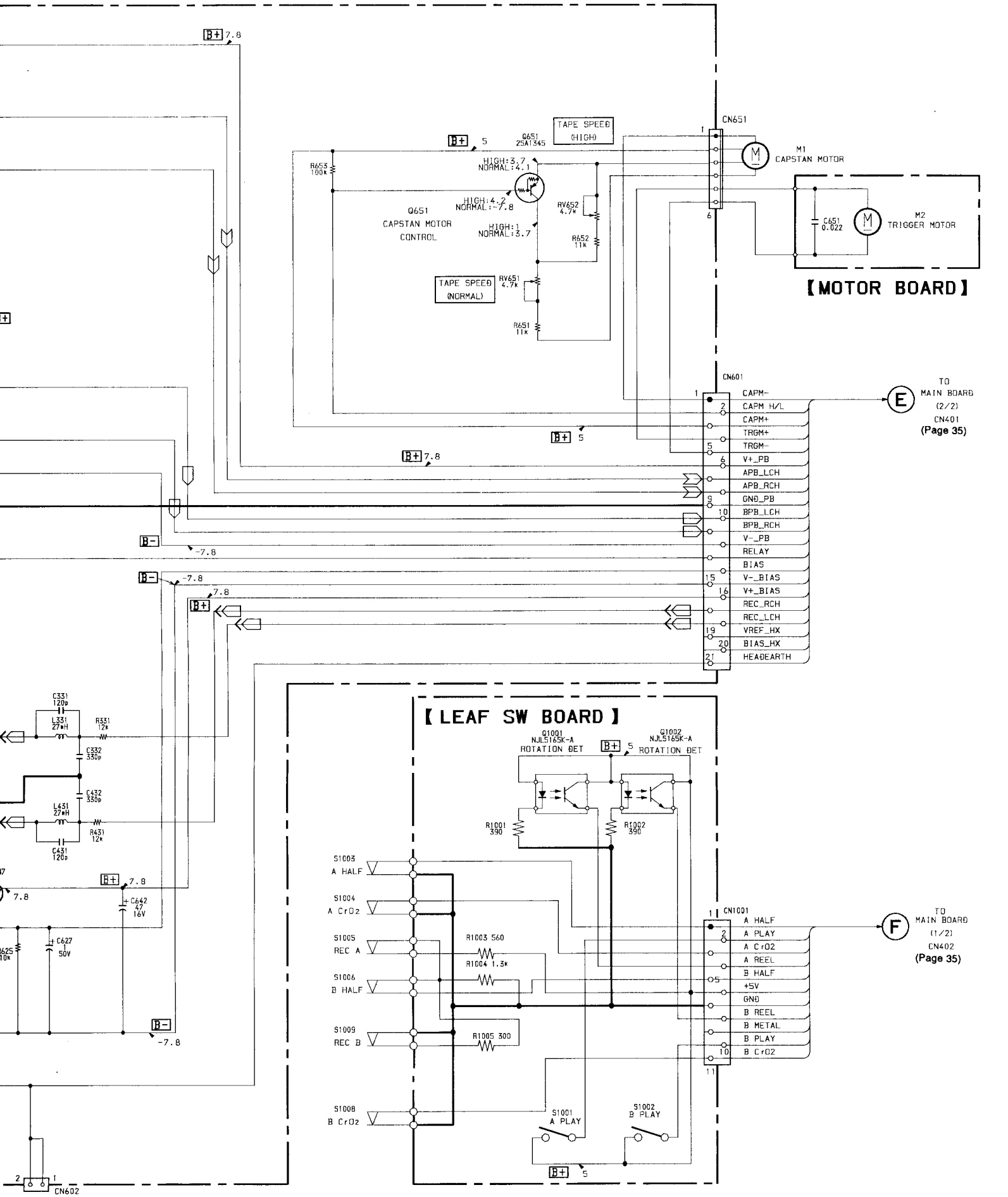


Note :

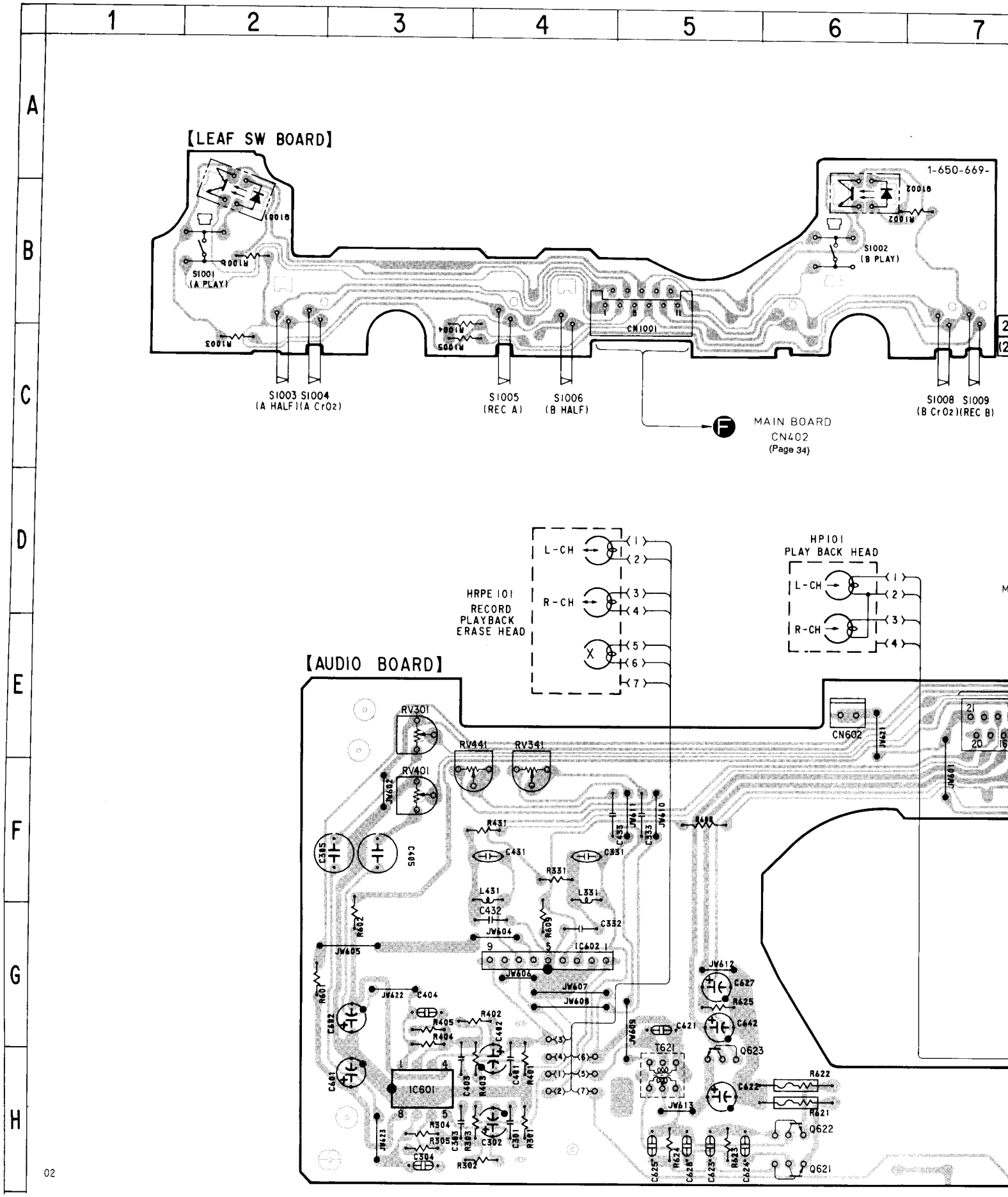
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY (TC)
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▷ : PB (DECK A)
  ▷ : PB (DECK B)
  ▷» : REC (DECK B)

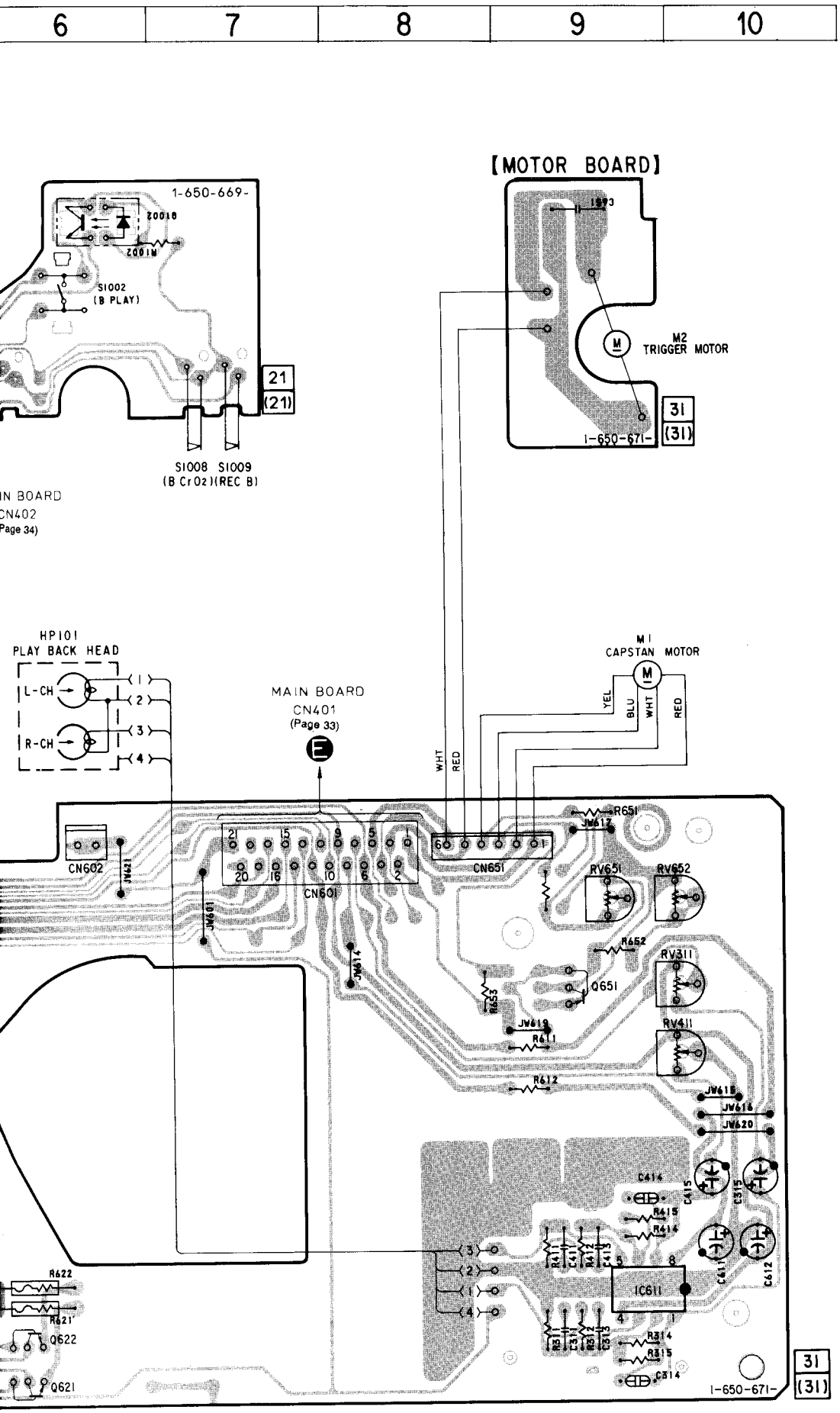
6-16. SCHEMATIC DIAGRAM – AUDIO SECTION –




B+ 7.8
TAPE SPEED (HIGH)
B+ 5
Q651 2SA1345
HIGH:3.7 NORMAL:4.1
R653 100k
HIGH:4.2 NORMAL:7.8
Q651 CAPSTAN MOTOR CONTROL
HIGH:1 NORMAL:3.7
RV652 4.7k
R652 11k
TAPE SPEED (NORMAL)
RV651 4.7k
R651 11k
CN651
M1 CAPSTAN MOTOR
C651 0.022
M2 TRIGGER MOTOR
【MOTOR BOARD】
CN601
CAPM-
CAPM H/L
CAPM+
TRGM+
TRGM-
V+_PB
APB_LCH
APB_RCH
GND_PB
BPB_LCH
BPB_RCH
V-_PB
RELAY
BIAS
V-_BIAS
V+_BIAS
REC_RCH
REC_LCH
VREF_HX
BIAS_HX
HEADEARTH
TO MAIN BOARD (2/2) CN401 (Page 35)
B+ 7.8
B- -7.8
【LEAF SW BOARD】
Q1001 NJL5165K-A ROTATION DET
Q1002 NJL5165K-A ROTATION DET
R1001 390
R1002 390
S1003 A HALF
S1004 A CrO2
S1005 REC A
S1006 B HALF
S1009 REC B
S1008 B CrO2
R1003 560
R1004 1.3k
R1005 300
S1001 A PLAY
S1002 B PLAY
CN1001
A HALF
A PLAY
A CrO2
A REEL
B HALF
+5V
GND
B REEL
B METAL
B PLAY
B CrO2
TO MAIN BOARD (1/2) CN402 (Page 35)
C331 120p
L331 27mH
R331 12k
C332 330p
C432 330p
L431 27mH
R431 12k
C431 120p
C642 47 16V
C627 50V
CN602

6-17. PRINTED WIRING BOARDS – AUDIO SECTION –





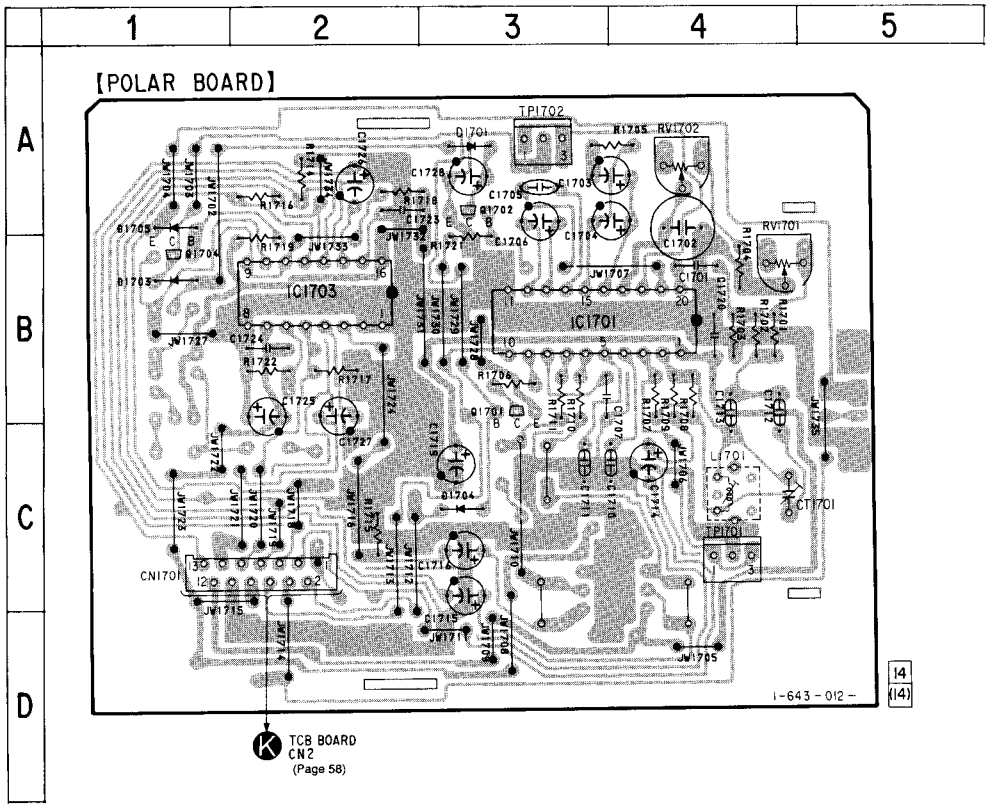
● SEMICONDUCTOR LOCATION

Ref. No.	Location
IC601	H - 3
IC602	G - 4
IC611	H - 9
Q621	H - 9
Q622	H - 9
Q623	H - 5
Q651	F - 9
Q1001	B - 2
Q1002	B - 6

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

6-18. PRINTED WIRING BOARDS – POLAR SECTION –



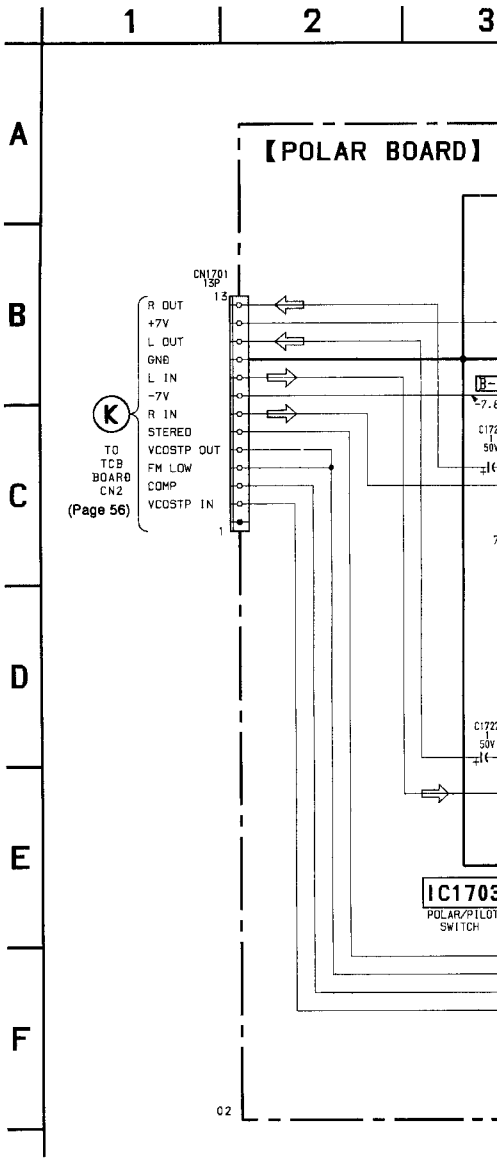
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

• SEMICONDUCTOR LOCATION

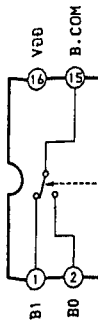
Ref. No.	Location
D1701	A - 3
D1703	B - 1
D1704	C - 3
D1705	A - 1
IC1701	B - 3
IC1703	A - 3
Q1701	B - 3
Q1702	B - 2
Q1704	B - 1

6-19. SCHEMATIC DIAGRAM – POLAR SI



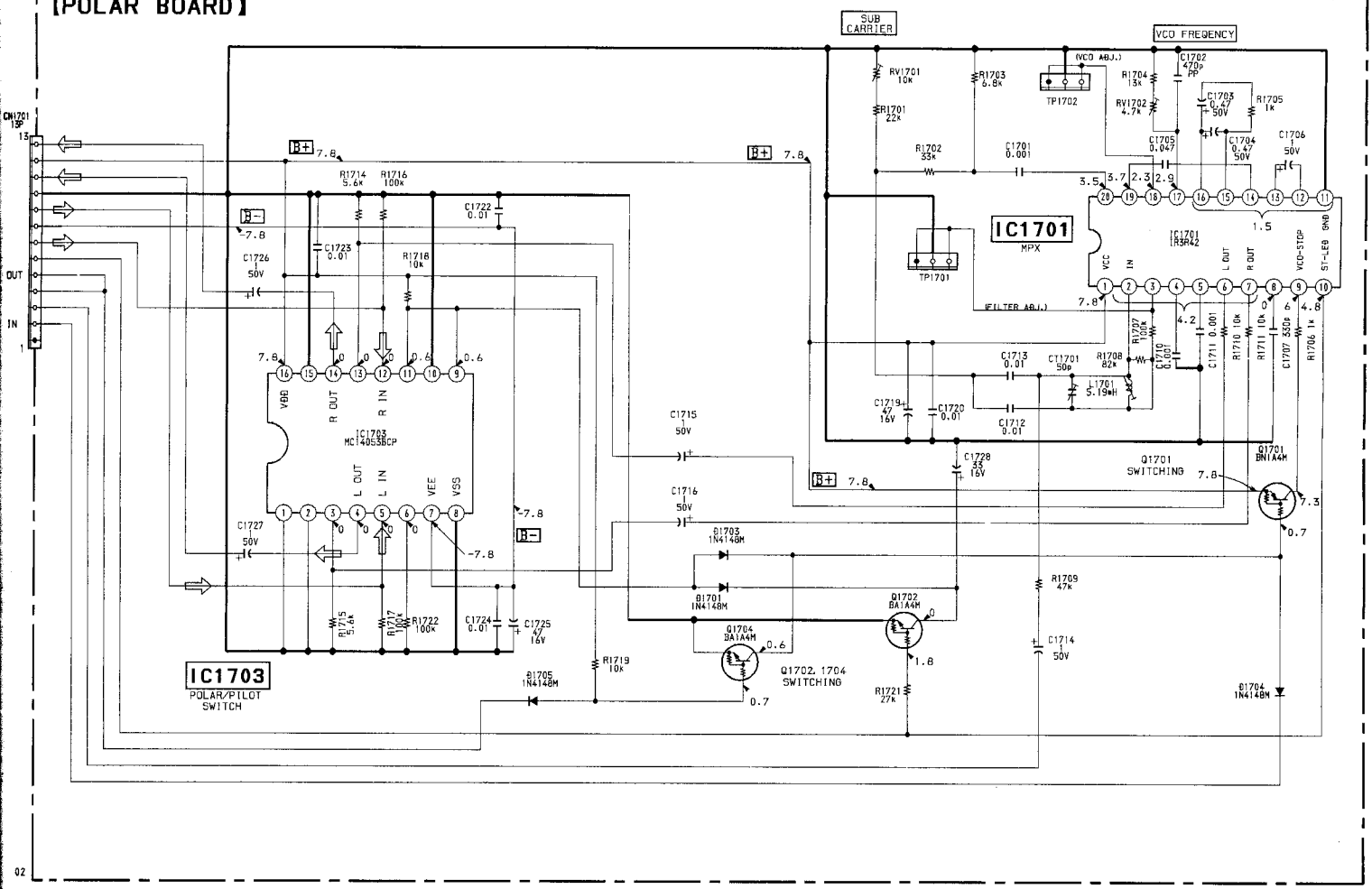
• IC BLOC

IC1703



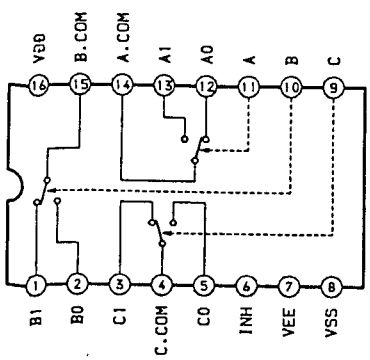
2	3	4	5	6	7	8	9

【POLAR BOARD】



• IC BLOCK DIAGRAM

IC1703 μPD4053BC



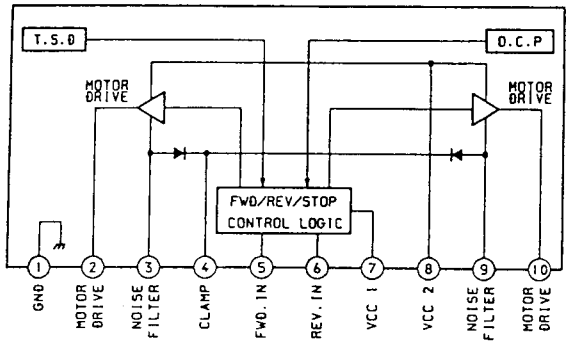
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

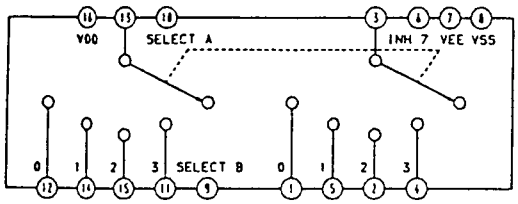
• IC BLOCK DIAGRAMS

– MAIN SECTION –

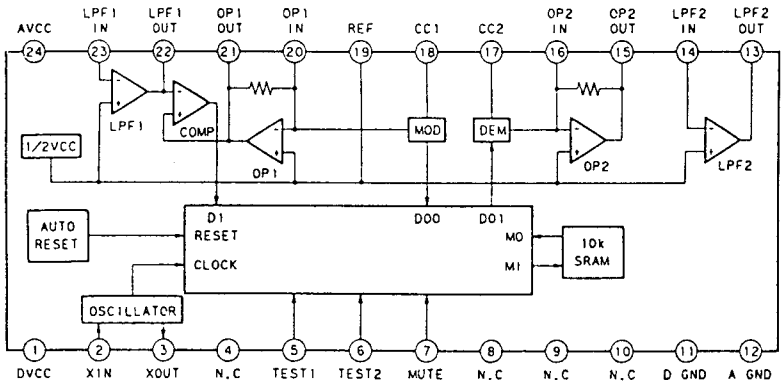
IC402 LB1641



IC802 MC14052BCP

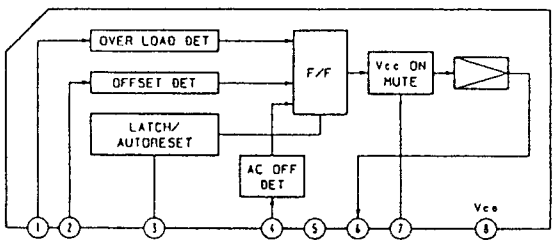


IC806 M65843FP



– POWER SECTION –

IC1202 μPC1237HA



– BD SECTION –

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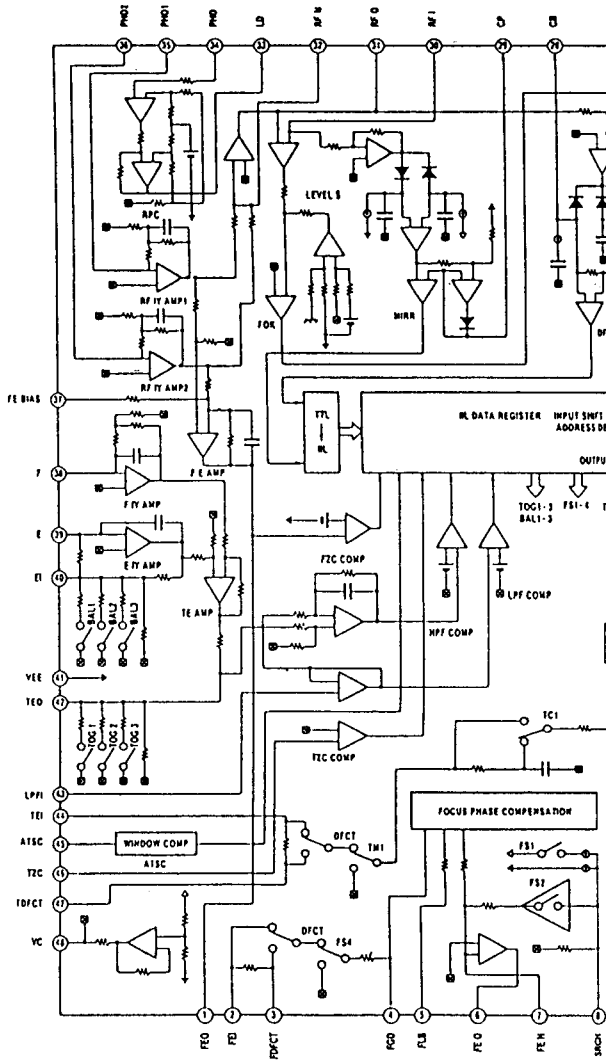
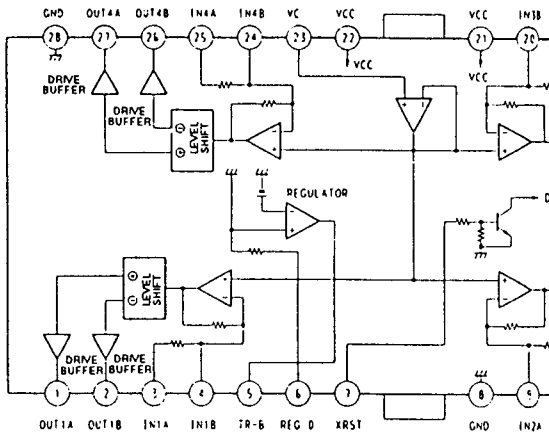
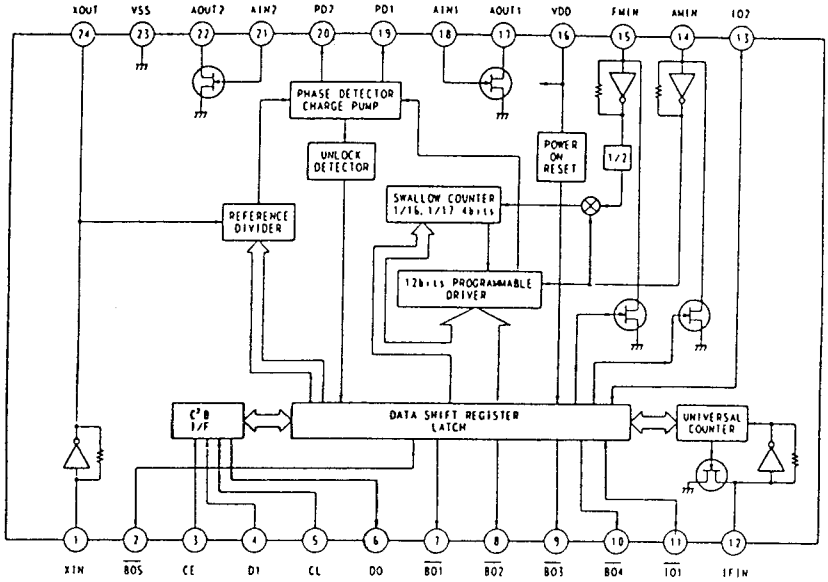


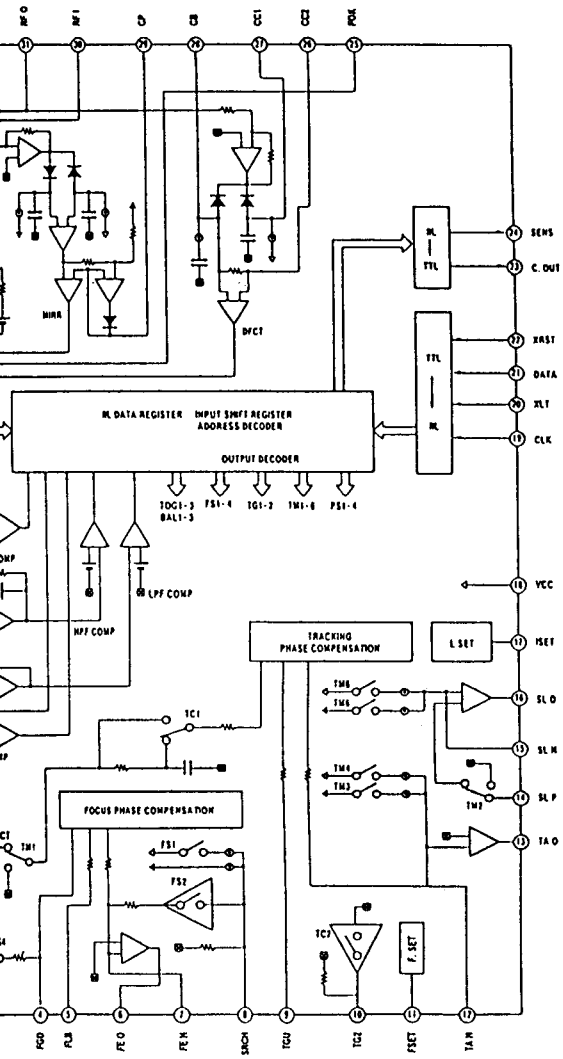
IC102 BA6397FP-T1



– TCB SECTION –

IC1, 21 LC72130





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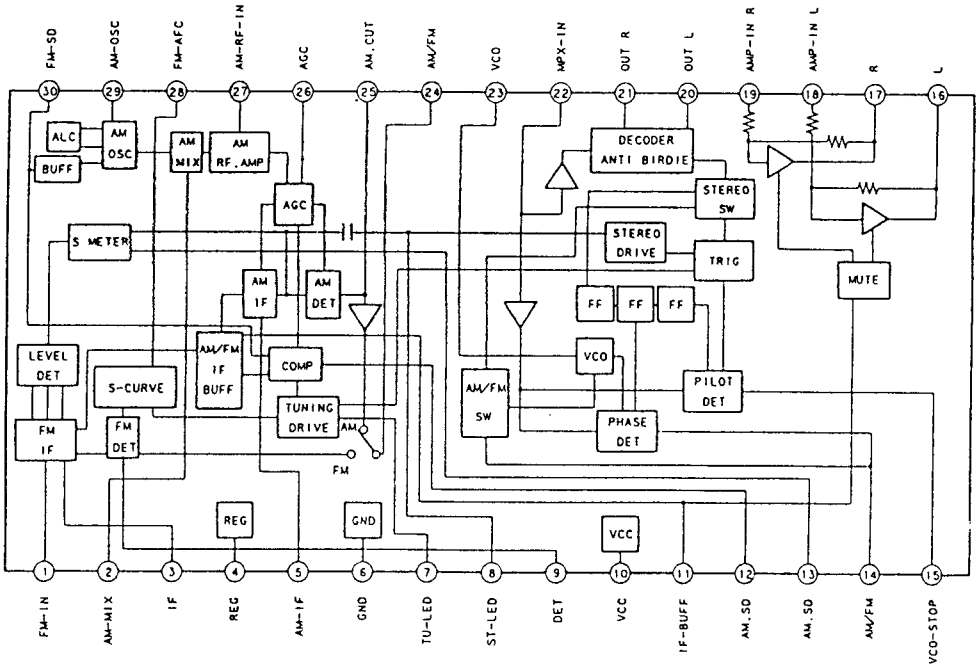
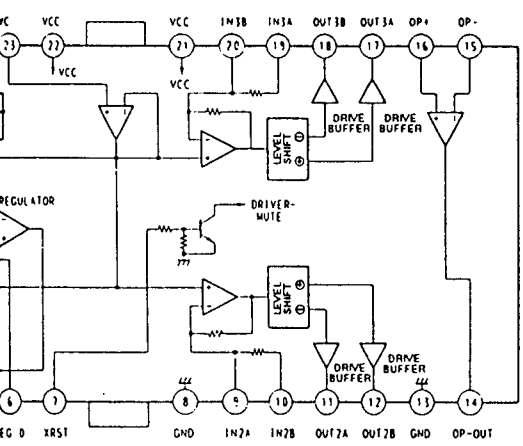




SECTION 7
EXPLODED VIEWS

NOTE :

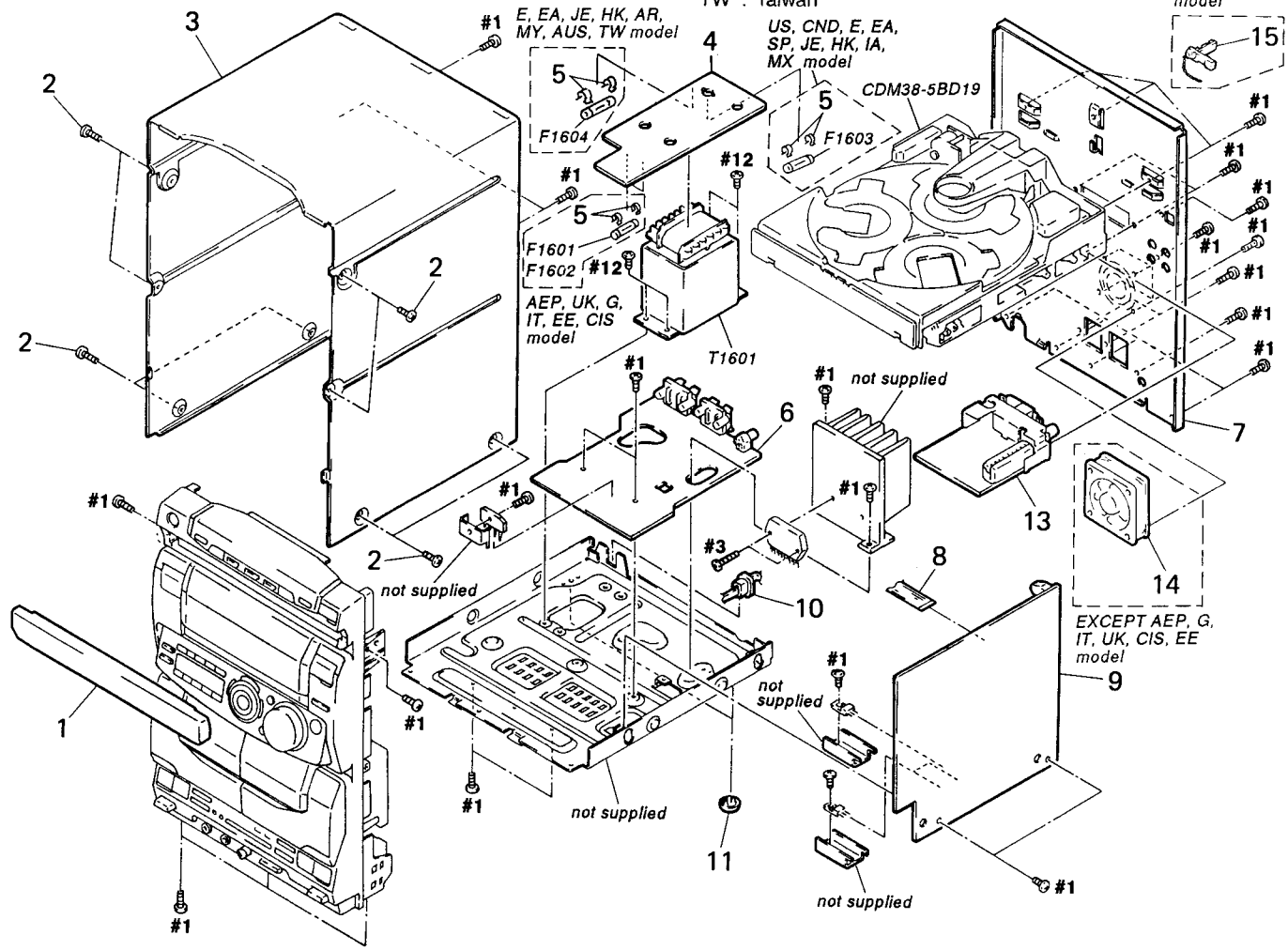
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ..... (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

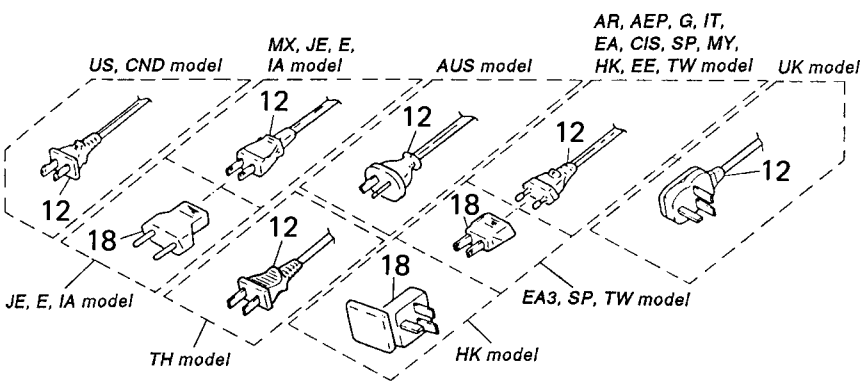
CND	: Canadian	SP	: Singapore
AUS	: Australian	HK	: Hong Kong
AR	: Argentine	JE	: Tourist
MX	: Mexican	IA	: Indonesia
TH	: Thailand	G	: German
EA3/EA4	: Saudi Arabia	IT	: Italian
MY	: Malaysia	EE	: East European
		TW	: Taiwan

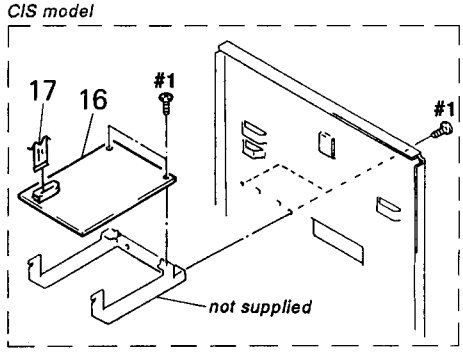
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CHASSIS SECTION







Ref. No.	Pa
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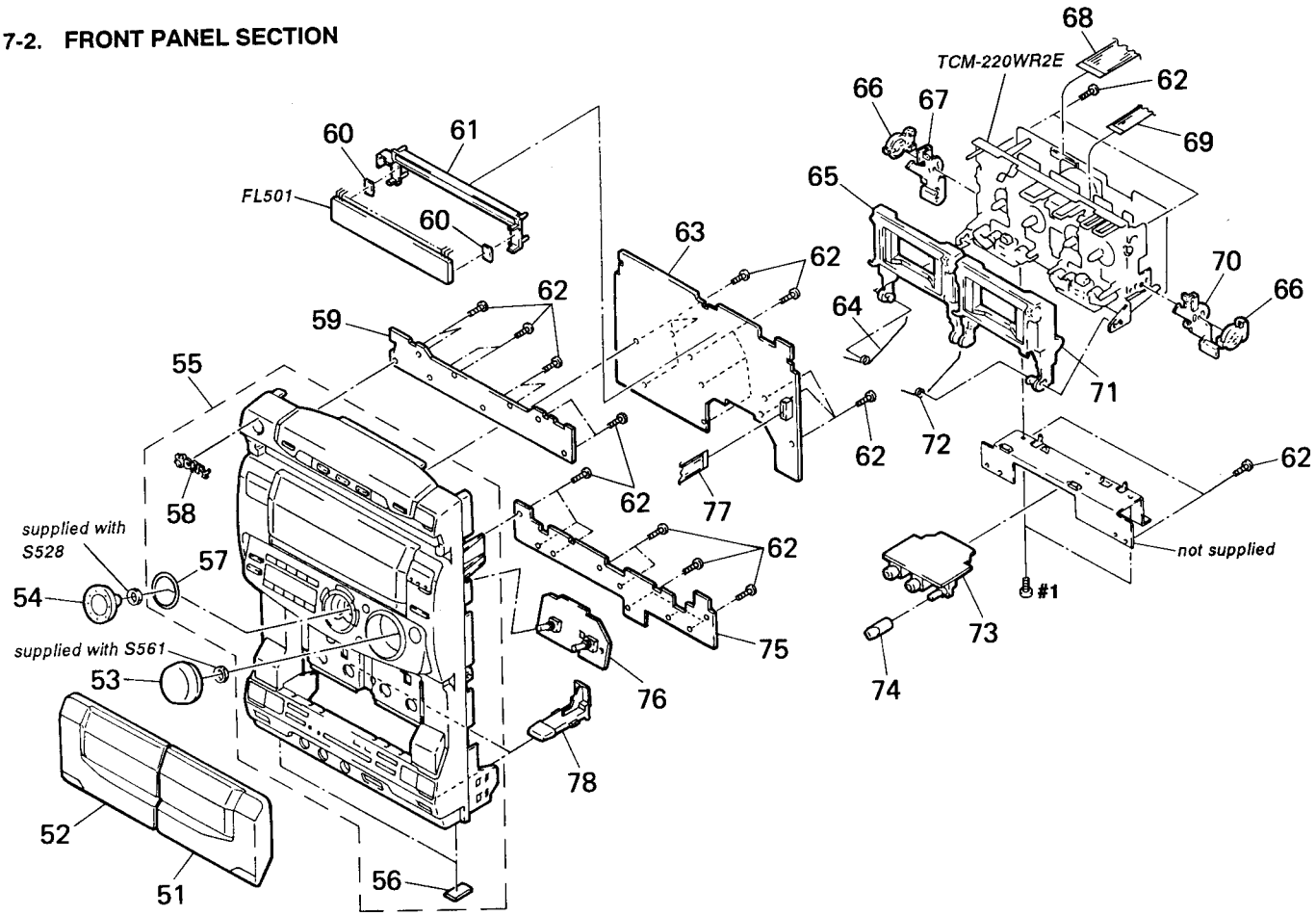
2	3-3
* 3	4-9
* 3	4-9
* 4	1-6
* 5	1-5
* 6	A-4
* 6	A-4
* 6	A-4
* 6	A-4
* 7	4-9
* 7	4-9
* 7	4-9

Ref. No.	Part No.	Description	Remark
1	4-978-714-01	PANEL, LOADING (US,CND,AEP,G,IT,UK,EE,CIS:	made in Malaysia)
1	4-978-714-11	PANEL, LOADING (AR,AUS,EA3,E,HK,JE,MX,MY,	SP,TW:made in Malaysia/TH,EA4:made in Thailand)
1	4-978-714-31	PANEL, LOADING	(H881D;US,CND:made in Malaysia)
1	4-980-115-21	PANEL, LOADING (H881;US,CND,AEP,G,IT,	UK,EE,CIS:made in Indonesia)
1	4-980-115-31	PANEL, LOADING	(AR,AUS,E,HK,MX,SP,IA:made in Indonesia)
1	4-980-115-51	PANEL, LOADING	(H881D;US,CND:made in Indonesia)
2	3-363-099-01	SCREW (CASE 3 TP2)	
* 3	4-978-748-01	CASE (made in Malaysia)	
* 3	4-978-748-61	CASE (made in Indnesia)	
* 4	1-659-116-11	TRANS BOARD	
* 5	1-533-217-31	HOLDER, FUSE	
* 6	A-4389-022-A	POWER BOARD, COMPLETE (H881D:US,CND)	
* 6	A-4389-040-A	POWER BOARD, COMPLETE (H881:US,CND)	
* 6	A-4389-041-A	POWER BOARD, COMPLETE	(AEP,G,IT,UK,EE,CIS)
* 6	A-4389-042-A	POWER BOARD, COMPLETE	(AR,AUS,EA,SP,MY,MX,JE,HK,E,TW,TH)
* 7	4-978-749-01	PANEL, BACK (H881;US:made in Malaysia)	
* 7	4-978-749-11	PANEL, BACK (H881;CND:made in Malaysia)	
* 7	4-978-749-21	PANEL, BACK (AEP:made in Malaysia)	
* 7	4-978-749-31	PANEL, BACK (UK:made in Malaysia)	
* 7	4-978-749-41	PANEL, BACK (G:made in Malaysia)	
* 7	4-978-749-51	PANEL, BACK (IT:made in Malaysia)	
* 7	4-978-749-61	PANEL, BACK (EE:made in Malaysia)	
* 7	4-978-749-71	PANEL, BACK (CIS:made in Malaysia)	
* 7	4-979-268-01	PANEL, BACK (E:made in Malaysia)	
* 7	4-979-268-11	PANEL, BACK (EA3,TW:made in Malaysia)	
* 7	4-979-268-21	PANEL, BACK (AUS:made in Malaysia)	
* 7	4-979-268-31	PANEL, BACK (MX:made in Malaysia)	
* 7	4-979-268-41	PANEL, BACK (MY:made in Malaysia)	
* 7	4-979-268-51	PANEL, BACK (SP:made in Malaysia)	
* 7	4-979-268-61	PANEL, BACK (AR:made in Malaysia)	
* 7	4-979-268-71	PANEL, BACK (HK:made in Malaysia)	
* 7	4-979-268-81	PANEL, BACK (JE:made in Malaysia)	
* 7	4-979-268-91	PANEL, BACK (made in Thailand)	
* 7	4-979-269-01	PANEL, BACK (H881D;US:made in Malaysia)	
* 7	4-979-269-11	PANEL, BACK (H881D;CND:made in Malaysia)	
* 7	4-979-277-01	PANEL, BACK (H881;US:made in Indonesia)	
* 7	4-979-277-11	PANEL, BACK (H881;CND:made in Indonesia)	
* 7	4-979-277-21	PANEL, BACK (AEP:made in Indonesia)	
* 7	4-979-277-31	PANEL, BACK (UK:made in Indonesia)	
* 7	4-979-277-41	PANEL, BACK (G:made in Indonesia)	
* 7	4-979-277-51	PANEL, BACK (IT:made in Indonesia)	
* 7	4-979-277-61	PANEL, BACK (EE:made in Indonesia)	
* 7	4-979-277-71	PANEL, BACK (CIS:made in Indonesia)	
* 7	4-979-278-01	PANEL, BACK (E,IA:made in Indonesia)	
* 7	4-979-278-21	PANEL, BACK (AUS:made in Indonesia)	
* 7	4-979-278-31	PANEL, BACK (MX:made in Indonesia)	
* 7	4-979-278-51	PANEL, BACK (SP:made in Indonesia)	
* 7	4-979-278-61	PANEL, BACK (AR:made in Indonesia)	
* 7	4-979-278-71	PANEL, BACK (HK:made in Indonesia)	
* 7	4-979-279-01	PANEL, BACK (H881D;US:made in Indonesia)	
* 7	4-979-279-11	PANEL, BACK (H881D;CND:made in Indonesia)	

Ref. No.	Part No.	Description	Remark
8	1-751-086-11	WIRE (FLAT TYPE) (13 CORE)	(US,CND,AR,AUS,E2,MX,TH,EA4)
8	1-773-012-11	WIRE (FLAT TYPE) (15 CORE) (AEP,IT,G,UK,CIS,	EE,E3,JE,MX,MY,EA3,TW,SP,IA)
* 9	A-4389-045-A	MAIN BOARD, COMPLETE (H881:US,CND)	
* 9	A-4389-046-A	MAIN BOARD, COMPLETE (AEP,UK)	
* 9	A-4389-047-A	MAIN BOARD, COMPLETE (G,IT)	
* 9	A-4389-048-A	MAIN BOARD, COMPLETE (EE)	
* 9	A-4389-049-A	MAIN BOARD, COMPLETE (CIS)	
* 9	A-4389-050-A	MAIN BOARD, COMPLETE (AR,E2,MX)	
* 9	A-4389-051-A	MAIN BOARD, COMPLETE	(EA,E3,HK,MY,SP,TW)
* 9	A-4389-052-A	MAIN BOARD, COMPLETE (AUS,TH)	
* 9	A-4389-197-A	MAIN BOARD, COMPLETE (H881D:US,CND)	
* 9	A-4389-358-A	MAIN BOARD, COMPLETE (JE)	
* 10	3-703-244-00	BUSHING (2104), CORD(EXCEPT E,IA:made	in Indnesia/E,JE,MX:made in Malaysia/TH)
10	3-703-571-11	BUSHING (S) (4516), CORD (E,JE,MX:made in	Malaysia/TH)
10	4-966-266-01	BUSHING (S) (FBS002), CORD	(E,IA:made in Indnesia)
11	4-965-822-01	FOOT	
⚠ 12	1-575-651-11	CORD, POWER	(AR,AEP,G,IT,EA,CIS,SP,MY,HK,EE,TW)
⚠ 12	1-575-653-11	CORD, POWER (MX,JE,E,IA)	
⚠ 12	1-690-608-11	CORD, POWER (AUS)	
⚠ 12	1-690-609-21	CORD, POWER (US,CND)	
⚠ 12	1-751-326-31	CORD, POWER (TH)	
⚠ 12	1-751-520-21	CORD, POWER (UK)	
* 13	A-4303-514-A	TCB BOARD, COMPLETE (AEP,UK)	
* 13	A-4303-515-A	TCB BOARD, COMPLETE (G,IT)	
* 13	A-4303-516-A	TCB BOARD, COMPLETE (EE)	
* 13	A-4303-517-A	TCB BOARD, COMPLETE (CIS)	
* 13	A-4303-518-A	TCB BOARD, COMPLETE	(E3,EA,MY,SP,TW,HK,JE,IA)
* 13	A-4303-522-A	TCB BOARD, COMPLETE (US,CND)	
* 13	A-4303-524-A	TCB BOARD, COMPLETE (E2,AUS,AR,MX,TH)	
14	1-698-659-11	FAN, DC (EXCEPT AEP,G,IT,UK,CIS,EE)	
15	4-956-370-12	BAND, PLUG FIXED (UK,AUS,HK)	
* 16	A-4377-454-A	POLAR BOARD, COMPLETE (CIS)	
17	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
⚠ 18	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
⚠ 18	1-569-007-11	ADAPTER, CONVERSION 2P (E,JE,IA)	
⚠ 18	1-569-008-11	ADAPTER, CONVERSION 2P (EA3,SP,TW)	
⚠ F1601	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1602	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1603	1-532-350-00	FUSE (T4AL,250V) (E,EA,SP,JE,HK,IA,MX)	
⚠ F1603	1-533-420-11	FUSE, GLASS TUBE (5A 125V) (US,CND)	
⚠ F1604	1-532-203-00	FUSE (T2AL,250V) (E,EA,JE,HK,AR,MY,AUS,TW)	
⚠ T1601	1-429-294-11	TRANSFORMER, POWER	(US,CND:made in Malaysia)
⚠ T1601	1-429-295-11	TRANSFORMER, POWER	(US,CND:made in Indonesia)
⚠ T1601	1-429-296-11	TRANSFORMER, POWER	(AEP,IT,G,UK,EE,CIS:made in Malaysia)
⚠ T1601	1-429-297-11	TRANSFORMER, POWER	(AEP,IT,G,UK,EE,CIS:made in Indonesia)
⚠ T1601	1-429-298-11	TRANSFORMER, POWER (AR,AUS,EA3,E,HK,JE,	MX,MY,SP,TW:made in Malaysia/TH,EA4 :made in Thailand)
⚠ T1601	1-429-299-11	TRANSFORMER, POWER	(AR,AUS,E,HK,MX,SP,IA:made in Indonesia)

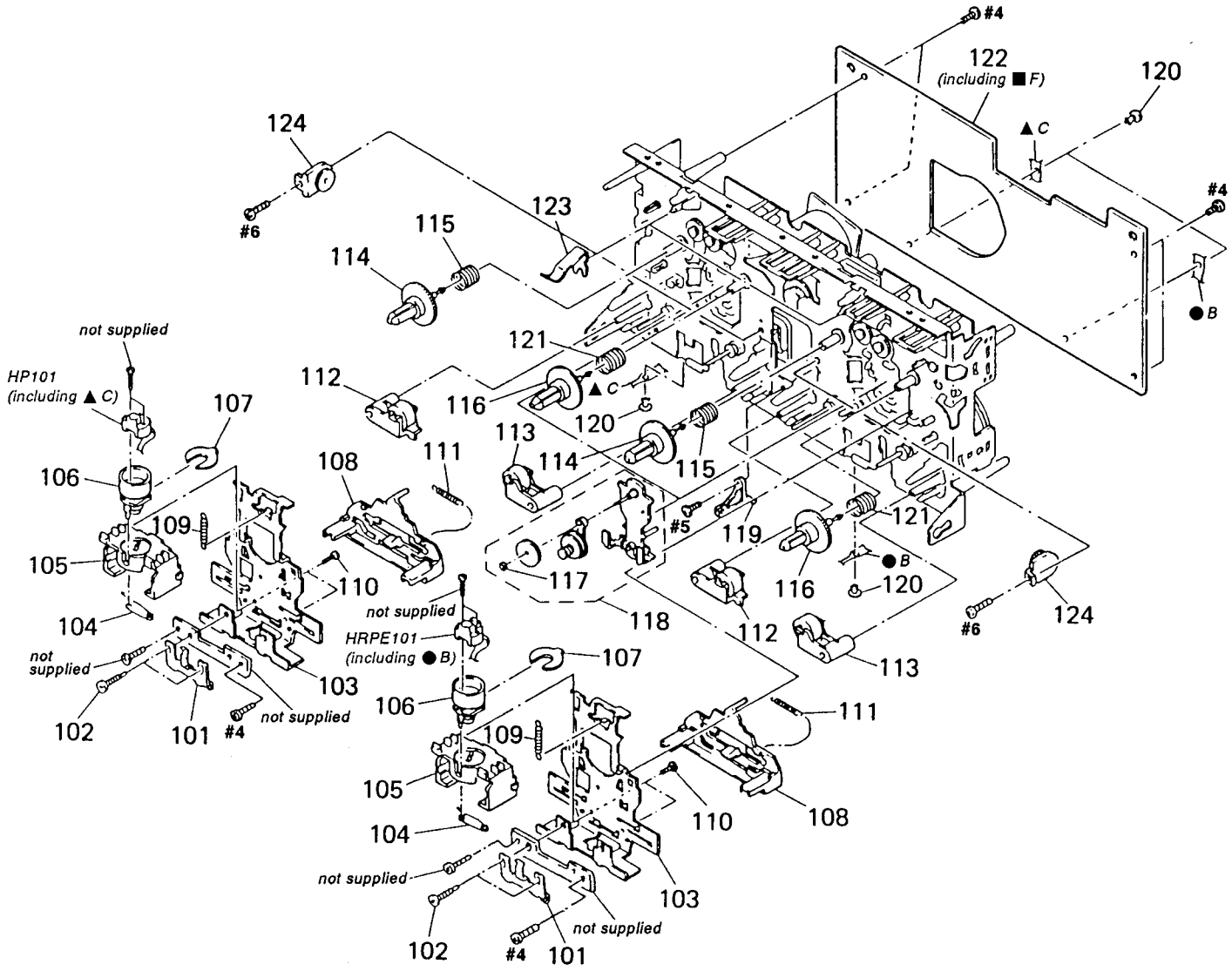
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4946-662-1	LID (B) ASSY, CASSETTE (made in Malaysia/ made in Thailand)	
51	X-4946-788-1	LID (B) ASSY, CASSETTE (made in Indonesia)	
52	X-4946-661-1	LID (A) ASSY, CASSETTE (made in Malaysia/ made in Thailand)	
52	X-4946-787-1	LID (A) ASSY, CASSETTE (made in Indonesia)	
53	4-978-733-01	KNOB, VOL (made in Malaysia/made in Thailand)	
53	4-978-733-11	KNOB, VOL (made in Indnesia)	
54	4-978-732-01	KNOB, JOG (made in Malaysia/made in Thailand)	
54	4-978-732-11	KNOB, JOG (made in Indnesia)	
55	4-978-713-21	PANEL, FRONT (AEP,G,IT,UK,EE:made in Indnesia)	
55	4-978-713-31	PANEL, FRONT (EXCEPT AEP,G,IT,UK, EE:made in Indnesia)	
55	X-4946-659-1	PANEL ASSY, FRONT (AEP,G,IT,UK,EE:made in Malaysia)	
55	X-4946-660-1	PANEL ASSY, FRONT (EXCEPT AEP,G,IT,UK,EE/ made in Malaysia)	
55	X-4947-003-1	PANEL ASSY, FRONT (AEP,G,IT,UK,EE:made in Indonesia)	
55	X-4947-016-1	PANEL ASSY, FRONT (EXCEPT AEP,G,IT,UK,EE/ made in Indonesia)	
56	4-930-336-61	FOOT (FELT)	
57	4-978-745-01	PLATE, ORNAMENTAL, JOG (made in Malaysa/ made in Thailand)	
57	4-978-745-31	PLATE, ORNAMENTAL, JOG (made in Indnesia)	
58	4-962-708-11	EMBLEM (4-A), SONY (made in Malaysia/ Thailand)	
58	4-962-708-21	EMBLEM (4-A), SONY (made in Indnesia)	
* 59	A-4389-029-A	CD-SW BOARD, COMPLETE	
* 60	4-932-810-11	CUSHION (FL)	
* 61	4-971-014-11	HOLDER, FL TUBE	

Ref. No.	Part No.	Description	Remark
62	4-951-620-01	SCREW (2.6X8), +BVTP	
* 63	A-4389-024-A	PANEL BOARD, COMPLETE (US,CND)	
* 63	A-4389-025-A	PANEL BOARD, COMPLETE (AEP,G,IT,UK)	
* 63	A-4389-026-A	PANEL BOARD, COMPLETE (AR,AUS,EE,E2,MX,TH)	
* 63	A-4389-027-A	PANEL BOARD, COMPLETE (EA,E3,HK,JE,MY,SP, CIS,TW)	
64	4-959-231-11	SPRING (L), TORSION	
65	X-4946-663-1	HOLDER (L) ASSY, CASSETTE (made in Malaysia / Thailand)	
65	X-4946-789-1	HOLDER (L) ASSY, CASSETTE (made in Indonesia)	
66	3-354-957-01	JOINT (LOCK LEVER)	
* 67	3-354-953-01	LEVER (LOCK LEVER L)	
68	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
69	1-765-325-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT TH,EA4)	
69	1-769-945-11	WIRE (FLAT TYPE) (11 CORE) (TH,EA4)	
* 70	3-354-954-01	LEVER (LOCK LEVER R)	
71	X-4946-664-1	HOLDER (R) ASSY, CASSETTE (made in Malaysia / Thailand)	
71	X-4946-790-1	HOLDER (R) ASSY, CASSETTE (made in Indonesia)	
72	4-959-232-11	SPRING (R), TORSION	
* 73	A-4389-031-A	HP/MIC BOARD, COMPLETE (EXCEPT AEP,G,IT,UK)	
* 73	A-4389-032-A	HP/MIC BOARD, COMPLETE (AEP,G,IT,UK)	
74	4-973-644-01	KNOB (MIC)	
* 75	A-4389-030-A	TC-SW BOARD, COMPLETE	
* 76	A-4389-028-A	JOG BOARD, COMPLETE	
77	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
78	4-978-731-01	BUTTON, EJECT (made in Malaysia/ Thailand)	
78	4-978-731-11	BUTTON, EJECT (made in Indnesia)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

7-3. MECHANISM DECK SECTION-1 (TCM-220WR2E)

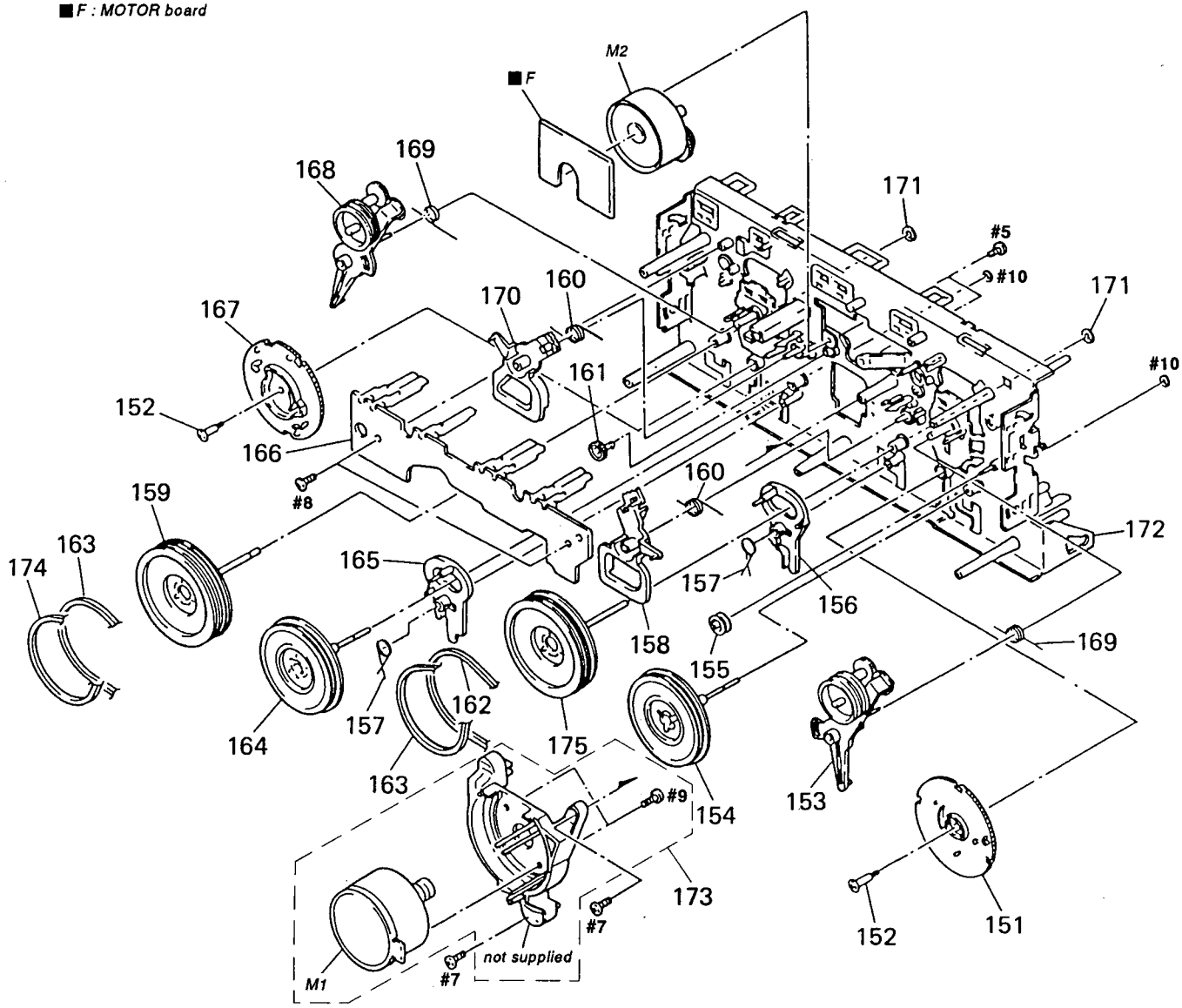


Ref. No.	Part No.	Description	Remark
101	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
102	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
* 103	X-3367-584-2	SLIDER (HEAD) ASSY	
104	3-908-556-01	SPRING, HEAD TOGGLE	
105	3-908-558-02	FITTING BLOCK, HEAD	
106	3-908-557-02	ROTARY BLOCK, HEAD	
* 107	3-908-559-01	STOPPER, AZIMUTH	
108	3-908-555-01	SLIDER (REV SLIDER)	
109	3-917-143-11	SPRING, TENSION	
110	3-388-848-01	SCREW (P2X6) (B TIGHT)	
111	3-911-113-01	SPRING, TENSION	
112	X-3370-643-1	PINCH LEVER (REV) ASSY	
113	X-3367-588-1	PINCH LEVER (FWD) ASSY	

Ref. No.	Part No.	Description	Remark
114	3-908-613-01	GEAR (S), REEL	
115	3-917-141-01	SPRING, COMPRESSION	
116	X-3371-305-1	REEL (T) ASSY	
117	3-669-465-01	WASHER (1.5), STOPPER	
118	X-3370-173-1	TU ASSY	
* 119	3-908-611-01	FULCRUM, HOLDER	
120	3-911-116-21	RIVET, PUSH	
121	3-917-142-01	SPRING, COMPRESSION	
* 122	A-2007-435-A	AUDIO BOARD, COMPLETE	
123	3-930-972-01	DETENT, HALF	
124	3-354-963-01	DAMPER	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

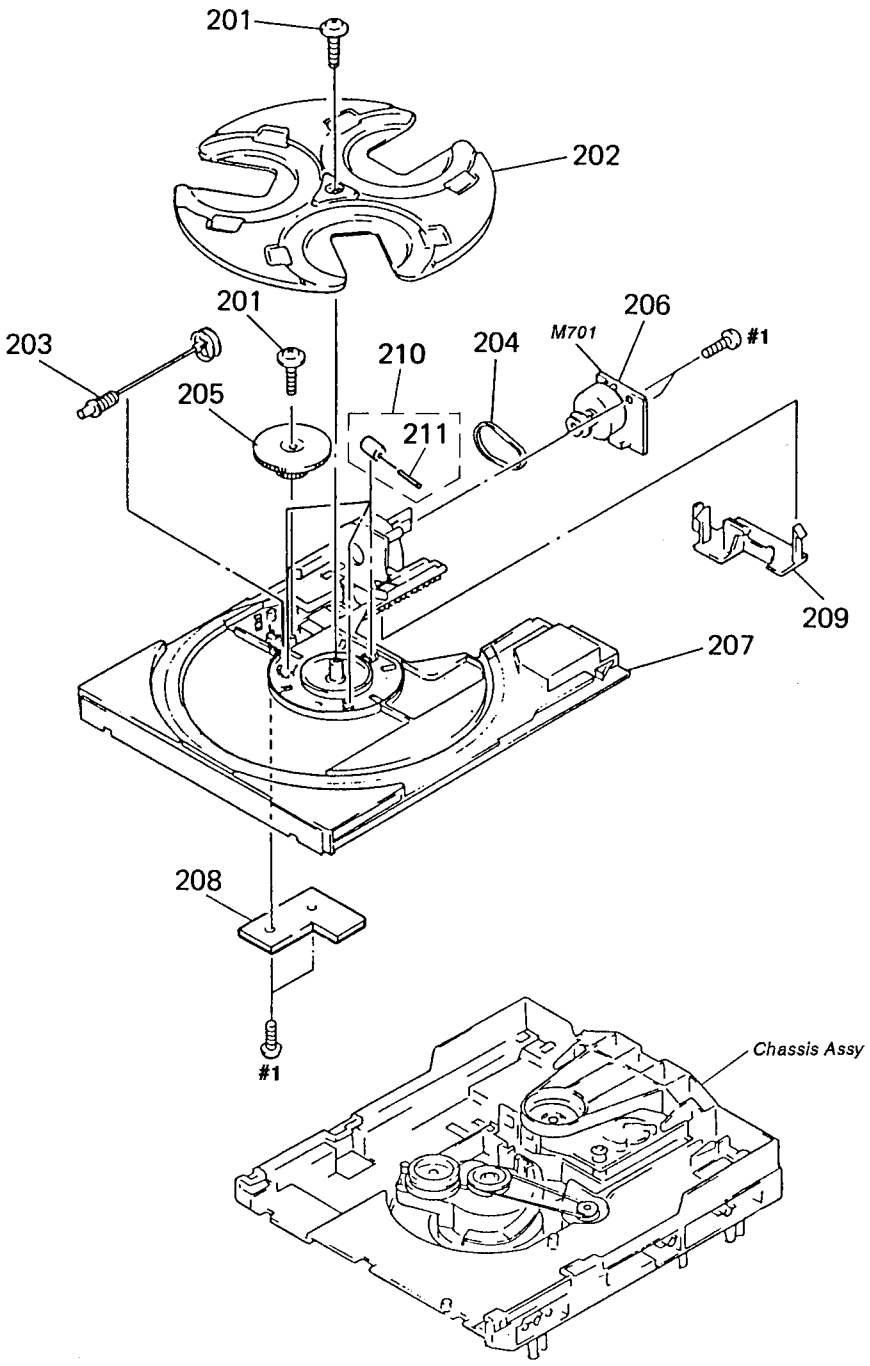
7-4. MECHANISM DECK SECTION-2 (TCM-220WR2E)

■ *F : MOTOR board*



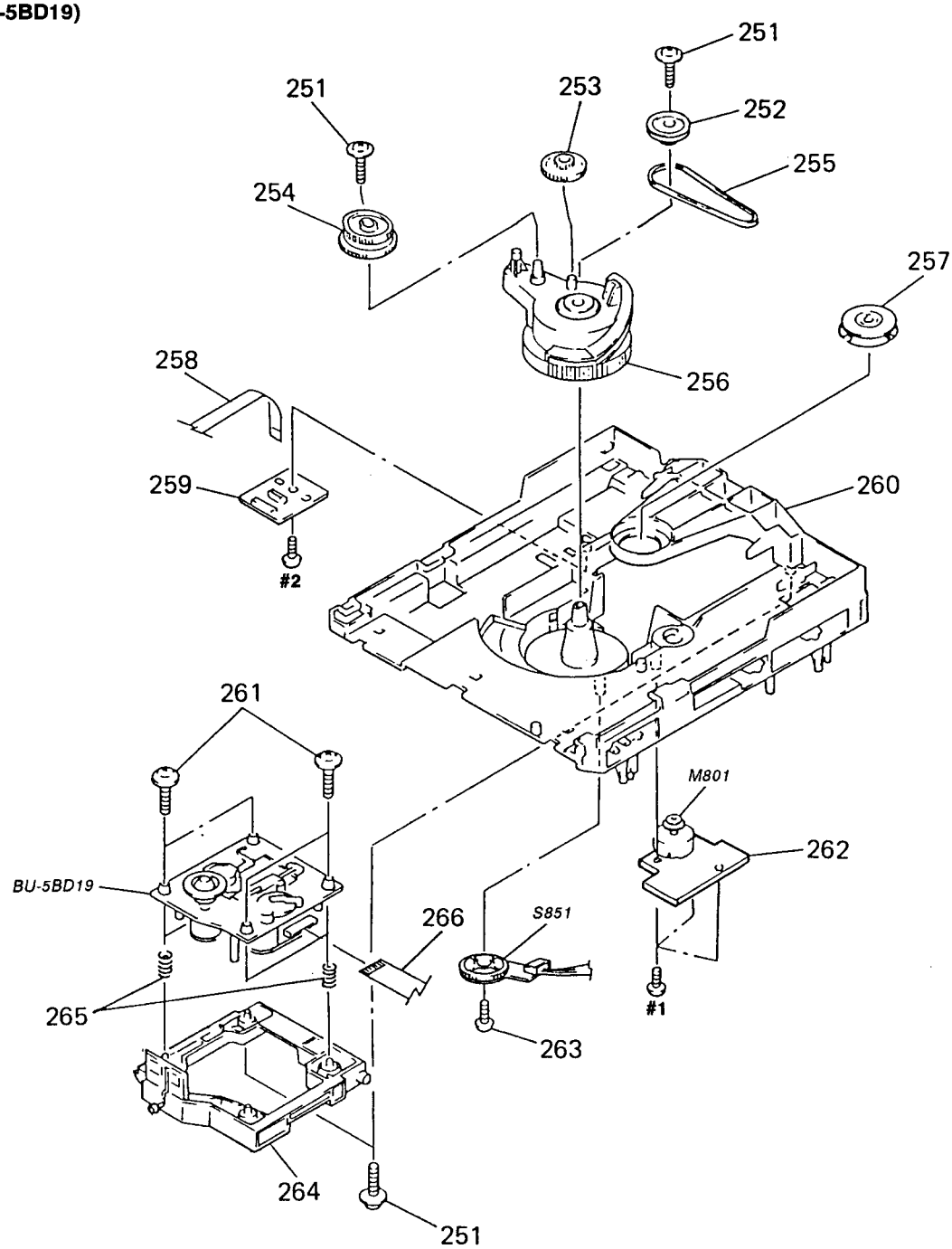
Ref. No.	Part No.	Description	Remark
151	3-908-597-01	CAM (A)	
152	3-908-608-11	SCREW, STEP	
153	X-3367-590-2	ARM (A) ASSY, FR	
154	X-3370-169-1	FLYWHEEL (AR) ASSY	
155	3-928-047-01	PULLEY, TENSION	
156	3-908-599-01	LEVER (REV-A)	
157	3-908-601-01	SPRING (REV LEVER), TORSION	
158	3-908-603-01	LEVER (TRIGGER A)	
159	X-3367-593-1	FLYWHEEL (BF) ASSY	
160	3-908-605-01	SPRING (TRIGGER), TORSION	
161	3-908-609-01	GEAR, TRIGGER	
162	3-913-845-11	BELT (A)	
163	3-913-846-11	BELT (FR)	
164	X-3370-171-1	FLYWHEEL (BR) ASSY	
165	3-908-600-01	LEVER (REV-B)	
* 166	1-650-669-11	LEAF SWITCH BOARD	
167	3-908-598-01	CAM (B)	
168	X-3369-849-2	ARM (B) ASSY, FR	
169	3-914-111-01	SPRING (FR), TORSION	
170	3-908-604-01	LEVER (TRIGGER B)	
171	3-911-115-01	WASHER, STOPPER	
172	X-3371-441-1	CHASSIS ASSY	
173	A-2004-409-A	MOTOR ASSY, CAPSTAN	
174	3-917-176-11	BELT (B)	
175	X-3370-172-1	FLYWHEEL (AF) ASSY	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

7-5. DISC TABLE ASSY SECTION (CDM38-5BD19)



Ref. No.	Part No.	Description	Remark
201	4-917-583-21	BRACKET, YOKE	
202	4-977-945-01	TRAY (TURN)	
203	X-4946-665-2	SHAFT ASSY, WORM (H881/H881D)	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	4-977-944-01	TRAY (SLIDE)	
* 208	1-658-576-12	SENSOR BOARD	
209	4-977-941-01	BEARING (WORM)	
210	X-4924-457-1	ROLLER ASSY	
211	4-934-376-01	SHAFT (ROLLER)	
M701	A-4660-586-A	MOTOR ASSY(TURN)	

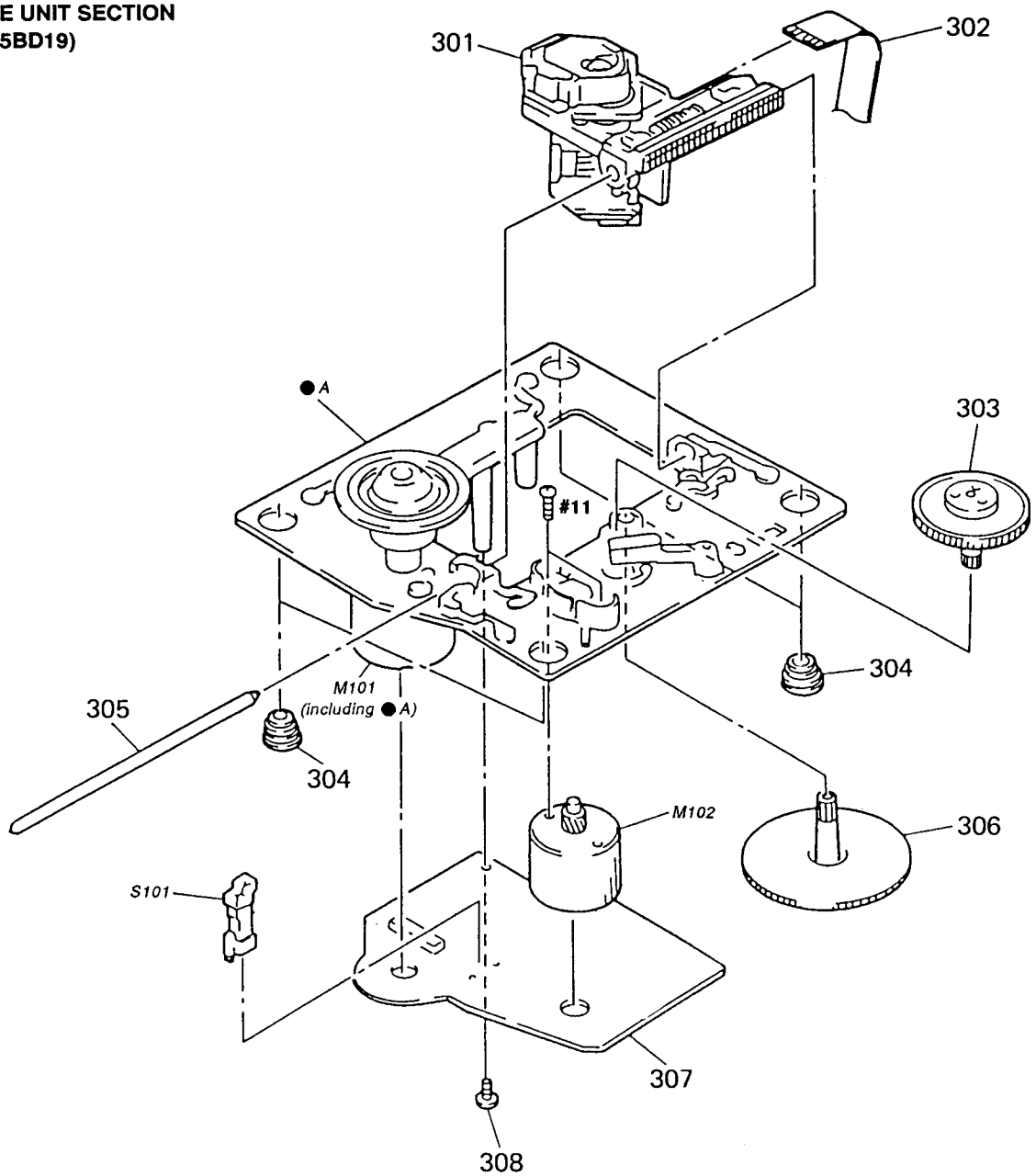
7-6. CDM CHASSIS SECTION (CDM38-5BD19)



Ref. No.	Part No.	Description	Remark
251	4-917-583-21	BRACKET, YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-667-1	CAM ASSY, BU	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	

Ref. No.	Part No.	Description	Remark
261	4-933-134-01	SCREW (+PTPWH M2.6X6)	
262	1-658-578-12	MOTOR (SLIDE) BOARD	
263	4-951-620-41	SCREW (2.6), +BVTP	
* 264	X-4946-666-1	HOLDER (BU) ASSY	
265	4-958-593-01	SPRING (BU), COMPRESSION	
266	1-776-442-11	WIRE (FLAT TYPE) (19 CORE) (EXCEPT TH)	
M801	A-4660-586-A	MOTOR ASSY(SLIDE)	
S851	1-473-335-11	ENCODER, ROTARY	

7-7. BASE UNIT SECTION (BU-5BD19)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠ 301	8-848-367-11	DEVICE, OPTICAL KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
* 307	A-4673-402-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-4	BASE OUTSERT ASSY(SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY(SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation

CND	: Canadian	SP	: Singapore
AUS	: Australian	HK	: Hong Kong
AR	: Argentine	JE	: Tourist
MX	: Mexican	IA	: Indonesia
TH	: Thailand	G	: German
EA	: Saudi Arabia	IT	: Italian
MY	: Malaysia	EE	: East European
TW	: Taiwan		

E2 : Tuner sections SW band do no exist.
E3 : Tuner sections SW band exist.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	A-2007-435-A	AUDIO BOARD, COMPLETE				
		**********				
		MOTOR BOARD				
		**********				
		< CAPACITOR >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V	
C302	1-126-968-11	ELECT	100uF	20%	6.3V	
C303	1-162-282-31	CERAMIC	100PF	10%	50V	
C304	1-130-483-00	MYLAR	0.01uF	5%	50V	
C305	1-107-715-11	ELECT	22uF	20%	16V	
C311	1-162-289-31	CERAMIC	390PF	10%	50V	
C313	1-162-282-31	CERAMIC	100PF	10%	50V	
C314	1-130-487-00	MYLAR	0.022uF	5%	50V	
C315	1-126-233-11	ELECT	22uF	20%	50V	
C331	1-137-427-11	FILM	120PF	5%	50V	
C332	1-162-288-31	CERAMIC	330PF	10%	50V	
C333	1-162-209-31	CERAMIC	27PF	5%	50V	
C401	1-162-289-31	CERAMIC	390PF	10%	50V	
C402	1-126-968-11	ELECT	100uF	20%	6.3V	
C403	1-162-282-31	CERAMIC	100PF	10%	50V	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V	
C411	1-162-289-31	CERAMIC	390PF	10%	50V	
C413	1-162-282-31	CERAMIC	100PF	10%	50V	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	
C415	1-126-233-11	ELECT	22uF	20%	50V	
C431	1-137-427-11	FILM	120PF	5%	50V	
C432	1-162-288-31	CERAMIC	330PF	10%	50V	
C433	1-162-209-31	CERAMIC	27PF	5%	50V	
C601	1-126-157-11	ELECT	10uF	20%	16V	
C602	1-126-157-11	ELECT	10uF	20%	16V	
C611	1-124-907-11	ELECT	10uF	20%	50V	
C612	1-124-907-11	ELECT	10uF	20%	50V	
C621	1-137-150-11	FILM	0.01uF	5%	100V	
C622	1-126-961-11	ELECT	2.2uF	20%	50V	
C623	1-136-155-00	FILM	0.015uF	5%	50V	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C627	1-124-903-11	ELECT	1uF	20%	50V	
C628	1-136-153-00	FILM	0.01uF	5%	50V	
C642	1-104-664-11	ELECT	47uF	20%	16V	
C651	1-161-494-00	CERAMIC	0.022uF		25V	

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P				
* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CN651	1-564-521-11	PLUG, CONNECTOR 6P				
		< IC >				
IC601	8-759-111-44	IC uPC4570C-1				
IC602	8-759-143-54	IC uPC1330HA				
IC611	8-759-111-44	IC uPC4570C-1				
		< COIL >				
L331	1-410-780-11	INDUCTOR	27mH			
L431	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK			
Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK			
Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP			
Q651	8-729-900-65	TRANSISTOR	2SA1345-TP			
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	

AUDIO MOTOR BD

Ref. No.	Part No.	Description			Remark
R601	1-249-409-11	CARBON	220	5%	1/4W
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-247-856-00	CARBON	11K	5%	1/4W
R652	1-247-856-00	CARBON	11K	5%	1/4W
R653	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)			
RV341	1-238-551-11	RES, ADJ, CARBON 220K (REC BIAS L)			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)			
RV441	1-238-551-11	RES, ADJ, CARBON 220K (REC BIAS R)			
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K (TAPE SPEED (NORMAL))			
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K (TAPE SPEED(HIGH))			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

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*	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V

Ref. No.	Part No.	Description			Remark
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP-T1			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-BT1			
		< TRANSISTOR >			
Q102	8-729-424-08	TRANSISTOR MUN2111T1			
Q103	8-729-421-22	TRANSISTOR MUN2211T1			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R105	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R106	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R107	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R108	1-216-089-91	METAL GLAZE	47K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R112	1-216-077-00	METAL CHIP	15K	5%	1/10W
R113	1-216-077-00	METAL CHIP	15K	5%	1/10W
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-093-00	METAL CHIP	68K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R146	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R147	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150	1-216-037-00	METAL CHIP	330	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K(FOCUS BIAS)			
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K(FOCUS GAIN)			
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K(TRACKING GAIN)			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)			
		< VIBRATOR >			
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
*	A-4389-029-A	CD-SW BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
* CN505	1-568-947-11	PIN, CONNECTOR 9P (EXCEPT TH)			
		< DIODE >			
D516	8-719-056-13	LED	SML79423C-TP15 (DISC 1)		
D517	8-719-056-13	LED	SML79423C-TP15 (DISC 1)		
D518	8-719-056-13	LED	SML79423C-TP15 (DISC 2)		
D519	8-719-056-13	LED	SML79423C-TP15 (DISC 2)		
D520	8-719-056-13	LED	SML79423C-TP15 (DISC 3)		
D521	8-719-056-13	LED	SML79423C-TP15 (DISC 3)		
D522	8-719-056-13	LED	SML79423C-TP15 (▷II)		
		< TRANSISTOR >			
Q510	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q511	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q512	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q513	8-729-119-76	TRANSISTOR	2SA1175-HFE		
		< RESISTOR >			
R518	1-249-401-11	CARBON	47	5%	1/4W
R519	1-249-403-11	CARBON	68	5%	1/4W
R520	1-247-807-31	CARBON	100	5%	1/4W
R521	1-249-407-11	CARBON	150	5%	1/4W
R522	1-249-407-11	CARBON	150	5%	1/4W
R523	1-249-409-11	CARBON	220	5%	1/4W
R524	1-249-411-11	CARBON	330	5%	1/4W
R525	1-249-413-11	CARBON	470	5%	1/4W
R596	1-249-403-11	CARBON	68	5%	1/4W
R597	1-249-403-11	CARBON	68	5%	1/4W
R598	1-249-403-11	CARBON	68	5%	1/4W
R599	1-249-403-11	CARBON	68	5%	1/4W
R600	1-249-403-11	CARBON	68	5%	1/4W
R601	1-249-403-11	CARBON	68	5%	1/4W
R602	1-249-403-11	CARBON	68	5%	1/4W
R603	1-249-403-11	CARBON	68	5%	1/4W
R604	1-249-403-11	CARBON	68	5%	1/4W
R605	1-249-403-11	CARBON	68	5%	1/4W
R606	1-249-403-11	CARBON	68	5%	1/4W
R607	1-249-403-11	CARBON	68	5%	1/4W
R608	1-249-403-11	CARBON	68	5%	1/4W
R609	1-249-403-11	CARBON	68	5%	1/4W

CD-SW | CONNECTOR | HP/MIC | JOG

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S500	1-554-303-21	SWITCH, TACTILE (POWER)			
S501	1-554-303-21	SWITCH, TACTILE (LOOP)			
S502	1-554-303-21	SWITCH, TACTILE (DISC SKIP EX-CHANGE)			
S503	1-554-303-21	SWITCH, TACTILE (DISC 1)			
S504	1-554-303-21	SWITCH, TACTILE (DISC 2)			
S505	1-554-303-21	SWITCH, TACTILE (DISC 3)			
S506	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)			
S507	1-554-303-21	SWITCH, TACTILE (■)			
S508	1-554-303-21	SWITCH, TACTILE (▷II)			
**********					
*	1-658-575-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P			
		< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR BA1A4M-TP			
		< RESISTOR >			
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
**********					
*	A-4389-031-A	HP/MIC BOARD, COMPLETE (EXCEPT AEP,G,IT, UK)			
*	A-4389-032-A	HP/MIC BOARD, COMPLETE (AEP,G,IT,UK)			
		**********			
		< CAPACITOR >			
C670	1-162-294-31	CERAMIC	0.001uF	10%	50V
C671	1-162-294-31	CERAMIC	0.001uF	10%	50V
C674	1-162-306-11	CERAMIC	0.01uF	30%	16V
C675	1-124-257-00	ELECT	2.2uF	20%	50V
C676	1-162-294-31	CERAMIC	0.001uF	10%	50V
C677	1-162-215-31	CERAMIC	47PF	5%	50V
C678	1-162-290-31	CERAMIC	470PF	10%	50V
C679	1-124-465-00	ELECT	0.47uF	20%	50V
C680	1-162-215-31	CERAMIC	47PF	5%	50V
C681	1-162-282-31	CERAMIC	100PF	10%	50V
C684	1-124-261-00	ELECT	10uF	20%	50V
C686	1-124-261-00	ELECT	10uF	20%	50V
C687	1-124-464-11	ELECT	0.22uF	20%	50V
		< IC >			
IC670	8-759-634-51	IC M5218AP			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J670	1-770-226-11	JACK (LARGE TYPE) (PHONES)			
J671	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)			
		< RESISTOR >			
R670	1-249-429-11	CARBON	10K	5%	1/4W
R671	1-249-417-11	CARBON	1K	5%	1/4W
R672	1-249-441-11	CARBON	100K	5%	1/4W
R673	1-249-417-11	CARBON	1K	5%	1/4W
R674	1-249-433-11	CARBON	22K	5%	1/4W
R675	1-249-429-11	CARBON	10K	5%	1/4W
R676	1-247-881-00	CARBON	120K	5%	1/4W
R677	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV670	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)			
**********					
*	A-4389-028-A	JOG BOARD, COMPLETE			
		**********			
		< DIODE >			
D508	8-719-058-17	LED	LNJ401NPYJA (SONIC FORMATION)		
D509	8-719-057-30	LED	HLMF-K205-211M (ENTER/NEXT)		
D510	8-719-057-97	LED	SEL5923A-TP15 (▶▶I)		
D511	8-719-057-97	LED	SEL5923A-TP15 (I◀◀)		
D512	8-719-057-97	LED	SEL5923A-TP15 (+)		
D513	8-719-057-97	LED	SEL5923A-TP15 (-)		
D514	8-719-057-97	LED	SEL5923A-TP15 (▬▶)		
D515	8-719-057-97	LED	SEL5923A-TP15 (◀▬)		
		< TRANSISTOR >			
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q508	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R541	1-249-413-11	CARBON	470	5%	1/4W
R542	1-249-415-11	CARBON	680	5%	1/4W
R543	1-249-417-11	CARBON	1K	5%	1/4W
R544	1-249-419-11	CARBON	1.5K	5%	1/4W
R545	1-249-421-11	CARBON	2.2K	5%	1/4W
R546	1-249-423-11	CARBON	3.3K	5%	1/4W
R588	1-247-807-31	CARBON	100	5%	1/4W
R589	1-249-407-11	CARBON	150	5%	1/4W
R590	1-247-807-31	CARBON	100	5%	1/4W
R591	1-247-807-31	CARBON	100	5%	1/4W
R592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-247-807-31	CARBON	100	5%	1/4W
R594	1-247-807-31	CARBON	100	5%	1/4W
R595	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S524	1-554-303-21	SWITCH, TACTILE (DBFB)			
S526	1-554-303-21	SWITCH, TACTILE (SONIC FORMATION)			
S527	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)			
S528	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)			
S529	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)			
S561	1-467-869-11	ENCODER, ROTARY (VOLUME)			
S562	1-467-968-11	ENCODER, ROTARY (MULTI JOG STATION)			
**********					
*	1-650-669-11	LEAF SWITCH BOARD			
		**********			
		< CONNECTOR >			
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P			
		< TRANSISTOR >			
Q1001	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H			
Q1002	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H			
		< RESISTOR >			
R1001	1-249-412-11	CARBON	390	5%	1/4W
R1002	1-249-412-11	CARBON	390	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)			
S1003	1-572-248-11	SWITCH, LEAF (A HALF)			
S1004	1-571-281-21	SWITCH, LEAF (A CrO_2)			
S1005	1-571-281-21	SWITCH, LEAF (REC A)			
S1006	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			
**********					
*	A-4389-045-A	MAIN BOARD, COMPLETE (H881:US,CND)			
*	A-4389-046-A	MAIN BOARD, COMPLETE (AEP,UK)			
*	A-4389-047-A	MAIN BOARD, COMPLETE (G,IT)			
*	A-4389-048-A	MAIN BOARD, COMPLETE (EE)			
*	A-4389-049-A	MAIN BOARD, COMPLETE (CIS)			
*	A-4389-050-A	MAIN BOARD, COMPLETE (AR,E2,MX)			
*	A-4389-051-A	MAIN BOARD, COMPLETE (EA,E3,HK,MY,SP,TW)			
*	A-4389-052-A	MAIN BOARD, COMPLETE (AUS,TH)			
*	A-4389-197-A	MAIN BOARD, COMPLETE (H881D:US,CND)			
*	A-4389-358-A	MAIN BOARD, COMPLETE (JE)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C201	1-124-925-11	ELECT	2.2uF	20%	100V
C202	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C203	1-126-925-11	ELECT	470uF	20%	10V
C204	1-126-933-11	ELECT	100uF	20%	10V
C205	1-162-306-11	CERAMIC	0.01uF	30%	16V
C211	1-124-925-11	ELECT	2.2uF	20%	100V
C212	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C250	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G,IT,UK,EE)
C251	1-164-035-11	CERAMIC	47PF	5%	50V (AEP,G,IT,UK,EE)
C252	1-102-527-11	CERAMIC	82PF	5%	50V (AEP,G,IT,UK,EE)
C253	1-162-291-31	CERAMIC	560PF	10%	50V (AEP,G,IT,UK,EE)
C254	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G,IT,UK,EE)
C255	1-162-288-31	CERAMIC	330PF	10%	50V (AEP,G,IT,UK,EE)
C256	1-124-925-11	ELECT	2.2uF	20%	100V (AEP,G,IT,UK,EE)
C257	1-126-964-11	ELECT	10uF	20%	50V (AEP,G,IT,UK,EE)
C258	1-162-291-31	CERAMIC	560PF	10%	50V (AEP,G,IT,UK,EE)
C259	1-126-964-11	ELECT	10uF	20%	50V (AEP,G,IT,UK,EE)
C260	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G,IT,UK,EE)
C261	1-126-967-11	ELECT	47uF	20%	16V (AEP,G,IT,UK,EE)
C301	1-130-479-00	MYLAR	0.0047uF	5%	50V
C302	1-162-290-31	CERAMIC	470PF	10%	50V
C303	1-164-159-11	CERAMIC	0.1uF		50V
C305	1-124-903-11	ELECT	1uF	20%	50V
C306	1-124-902-00	ELECT	0.47uF	20%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-124-903-11	ELECT	1uF	20%	50V
C310	1-126-933-11	ELECT	100uF	20%	10V
C351	1-130-479-00	MYLAR	0.0047uF	5%	50V
C352	1-162-290-31	CERAMIC	470PF	10%	50V
C353	1-164-159-11	CERAMIC	0.1uF		50V
C355	1-124-903-11	ELECT	1uF	20%	50V
C356	1-124-902-00	ELECT	0.47uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-124-903-11	ELECT	1uF	20%	50V
C360	1-126-933-11	ELECT	100uF	20%	10V
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-126-933-11	ELECT	100uF	20%	16V
C405	1-126-935-11	ELECT	470uF	20%	16V
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C702	1-126-916-11	ELECT	1000uF	20%	6.3V
C703	1-126-964-11	ELECT	10uF	20%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-126-964-11	ELECT	10uF	20%	50V
C707	1-162-203-31	CERAMIC	15PF	5%	50V
C708	1-162-203-31	CERAMIC	15PF	5%	50V
C710	1-162-306-11	CERAMIC	0.01uF	30%	16V
C713	1-162-306-11	CERAMIC	0.01uF	30%	16V
C714	1-162-306-11	CERAMIC	0.01uF	30%	16V
C810	1-162-306-11	CERAMIC	0.01uF	30%	16V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V
C821	1-162-286-31	CERAMIC	220PF	10%	50V
C822	1-162-286-31	CERAMIC	220PF	10%	50V
C825	1-109-889-11	ELECT	1uF	20%	50V
C832	1-130-473-00	MYLAR	0.0015uF	5%	50V
C833	1-124-903-11	ELECT	1uF	20%	50V
C834	1-130-479-00	MYLAR	0.0047uF	5%	50V
C835	1-124-903-11	ELECT	1uF	20%	50V
C836	1-136-495-11	FILM	0.068uF	5%	50V
C837	1-104-664-11	ELECT	47uF	20%	25V
C838	1-124-902-00	ELECT	0.47uF	20%	50V
C839	1-124-902-00	ELECT	0.47uF	20%	50V
C840	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C841	1-136-495-11	FILM	0.068uF	5%	50V
C842	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C843	1-130-473-00	MYLAR	0.0015uF	5%	50V
C844	1-124-903-11	ELECT	1uF	20%	50V
C845	1-161-494-00	CERAMIC	0.022uF		25V
C846	1-126-933-11	ELECT	100uF	20%	10V
C847	1-162-306-11	CERAMIC	0.01uF	30%	16V
C848	1-162-290-31	CERAMIC	470PF	10%	50V
C849	1-162-290-31	CERAMIC	470PF	10%	50V
C860	1-162-306-11	CERAMIC	0.01uF	30%	16V
C861	1-162-306-11	CERAMIC	0.01uF	30%	16V
C862	1-126-964-11	ELECT	10uF	20%	50V
C863	1-162-306-11	CERAMIC	0.01uF	30%	16V
C864	1-126-964-11	ELECT	10uF	20%	50V
C865	1-162-306-11	CERAMIC	0.01uF	30%	16V
C871	1-162-286-31	CERAMIC	220PF	10%	50V
C872	1-162-286-31	CERAMIC	220PF	10%	50V
C900	1-126-964-11	ELECT	10uF	20%	50V
C901	1-124-464-11	ELECT	0.22uF	20%	50V
C902	1-124-464-11	ELECT	0.22uF	20%	50V
C903	1-136-495-11	FILM	0.068uF	5%	50V
C904	1-136-495-11	FILM	0.068uF	5%	50V
C905	1-136-156-00	FILM	0.018uF	5%	50V
C906	1-136-156-00	FILM	0.018uF	5%	50V
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V

Ref. No.	Part No.	Description			Remark
C910	1-126-964-11	ELECT	10uF	20%	50V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-136-167-00	FILM	0.15uF	5%	50V
C913	1-136-167-00	FILM	0.15uF	5%	50V
C914	1-126-964-11	ELECT	10uF	20%	50V
C915	1-136-153-00	FILM	0.01uF	5%	50V
C930	1-136-167-00	FILM	0.15uF	5%	50V
C931	1-162-294-31	CERAMIC	0.001uF	10%	50V
C933	1-124-902-00	ELECT	0.47uF	20%	50V
C935	1-164-159-11	CERAMIC	0.1uF	50%	50V
C936	1-126-964-11	ELECT	10uF	20%	50V
C938	1-162-282-31	CERAMIC	100PF	10%	50V
C943	1-126-964-11	ELECT	10uF	20%	50V
C944	1-126-964-11	ELECT	10uF	20%	50V
C950	1-126-964-11	ELECT	10uF	20%	50V
C951	1-124-464-11	ELECT	0.22uF	20%	50V
C952	1-124-464-11	ELECT	0.22uF	20%	50V
C953	1-136-495-11	FILM	0.068uF	5%	50V
C954	1-136-495-11	FILM	0.068uF	5%	50V
C955	1-136-156-00	FILM	0.018uF	5%	50V
C956	1-136-156-00	FILM	0.018uF	5%	50V
C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C960	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-964-11	ELECT	10uF	20%	50V
C962	1-136-167-00	FILM	0.15uF	5%	50V
C963	1-136-167-00	FILM	0.15uF	5%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C965	1-136-153-00	FILM	0.01uF	5%	50V
C1001	1-126-937-11	ELECT	4700uF	20%	16V
C1002	1-126-943-11	ELECT	2200uF	20%	25V
C1004	1-126-916-11	ELECT	1000uF	20%	6.3V
C1005	1-126-964-11	ELECT	10uF	20%	50V
C1006	1-126-925-11	ELECT	470uF	20%	10V
C1007	1-126-934-11	ELECT	220uF	20%	16V
C1008	1-126-933-11	ELECT	100uF	20%	16V
C1009	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1010	1-164-159-11	CERAMIC	0.1uF	50%	50V
C1011	1-164-159-11	CERAMIC	0.1uF	50%	50V
C1012	1-126-964-11	ELECT	10uF	20%	50V
C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C1014	1-126-964-11	ELECT	10uF	20%	50V
C1015	1-126-964-11	ELECT	10uF	20%	50V
C1016	1-126-925-11	ELECT	470uF	20%	10V
C1017	1-126-925-11	ELECT	470uF	20%	10V
C1018	1-126-942-61	ELECT	1000uF	20%	25V
C1020	1-126-947-11	ELECT	47uF	20%	35V
C1021	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1022	1-126-969-11	ELECT	220uF	20%	50V
C1023	1-126-969-11	ELECT	220uF	20%	50V
C1024	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remark
C1025	1-126-964-11	ELECT 10uF 20% 50V	
C1026	1-126-964-11	ELECT 10uF 20% 50V	
C1027	1-126-964-11	ELECT 10uF 20% 50V	
C1028	1-126-933-11	ELECT 100uF 20% 16V	
C1290	1-126-963-11	ELECT 4.7uF 20% 50V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1291	1-164-159-11	CERAMIC 0.1uF 50% 50V	(EXCEPT AEP,G,IT,UK,CIS,EE)
		< CONNECTOR >	
CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P	
* CN202	1-568-936-11	PIN, CONNECTOR 9P (TH,IA)	
* CN203	1-568-935-11	PIN, CONNECTOR 8P (TH,IA)	
* CN250	1-568-834-11	SOCKET, CONNECTOR 15P	(EXCEPT US,CND,E2,AUS,AR,MX)
* CN250	1-568-832-11	SOCKET, CONNECTOR 13P	(US,CND,E2,AUS,AR,MX)
CN401	1-568-838-11	SOCKET, CONNECTOR 21P	
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN404	1-568-449-11	HOUSING, CONNECTOR (PC BOARD)3P	
* CN701	1-568-832-11	SOCKET, CONNECTOR 13P	
* CN1001	1-770-734-11	CONNECTOR, BOARD TO BOARD 20P	
CN1204	1-564-505-11	PLUG, CONNECTOR 2P	(EXCEPT AEP,G,IT,UK,CIS,EE)
		< DIODE >	
D201	8-719-987-63	DIODE 1N4148M	
D202	8-719-987-63	DIODE 1N4148M	
D251	8-719-987-63	DIODE 1N4148M-TP	(AEP,G,IT,UK,EE)
D401	8-719-933-54	DIODE HZS9A2L	
D701	8-719-987-63	DIODE 1N4148M	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-987-63	DIODE 1N4148M	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D706	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D707	8-719-987-63	DIODE 1N4148M	
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-987-63	DIODE 1N4148M	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
D1001	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1001	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1002	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1002	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1003	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1003	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1004	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1004	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1005	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1005	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1006	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1006	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1007	8-719-987-63	DIODE 1N4148M	
D1008	8-719-001-43	DIODE UZL-11M1-TA	(IA)
D1008	8-719-001-42	DIODE UZL-11M1	(EXCEPT IA)
D1009	8-719-987-63	DIODE 1N4148M	
D1010	8-719-987-63	DIODE 1N4148M	
D1011	8-719-010-43	DIODE UZ-5.6BSC	
D1012	8-719-934-22	DIODE UZL-30M-TP	(EXCEPT IA)
D1012	8-719-011-05	DIODE UZ-27BS-TA	(IA)
D1013	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1013	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1014	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1014	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1015	8-719-987-63	DIODE 1N4148M	
D1016	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1016	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1017	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1017	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1018	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1018	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1021	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1021	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1022	8-719-200-82	DIODE 11ES2-NTA1B	(IA)
D1022	8-719-024-99	DIODE 11ES2-NTA2B	(EXCEPT IA)
D1023	8-719-210-21	DIODE 11EQS04	
D1024	8-719-210-21	DIODE 11EQS04	
D1025	8-719-210-21	DIODE 11EQS04	
		< TERMINAL BOARD >	
EPT1001	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
IC201	8-749-923-04	IC TOTX178	
IC250	8-759-169-99	IC SAA6579	(AEP,G,IT,UK,EE)
IC251	8-759-634-51	IC NJM4558D	(AEP,G,IT,UK,EE)
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC701	8-759-375-44	IC TMP87CS64YF-6361	
IC702	8-759-165-80	IC PST600C-T	
IC802	8-759-000-48	IC MC14052BCP	
IC806	8-759-265-83	IC M65843FP	
IC807	8-759-140-53	IC uPD4053BC	
IC808	8-759-634-51	IC M5218AP	
IC901	8-759-331-39	IC M62427FP	
IC902	8-759-634-51	IC M5218AP	
IC1001	8-759-231-53	IC TA7805S	
IC1002	8-759-604-86	IC M5F7807L	
IC1003	8-759-604-86	IC M5F7807L	
IC1004	8-759-604-90	IC M5F7907L	

MAIN

Ref. No.	Part No.	Description			Remark
		< JACK >			
J801	1-695-188-31	JACK, PIN 4P (VIDEO,MD/AUDIO IN/OUT)			
		< COIL >			
L250	1-410-521-11	INDUCTOR	100uH (AEP,G,IT,UK,EE)		
L840	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q301	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q351	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q402	8-729-900-65	TRANSISTOR	DTA144ES		
Q403	8-729-801-93	TRANSISTOR	2SD1387		
Q406	8-729-900-80	TRANSISTOR	DTC114ES		
Q407	8-729-422-57	TRANSISTOR	UN4111		
Q408	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q409	8-729-900-80	TRANSISTOR	DTC114ES		
Q410	8-729-900-65	TRANSISTOR	DTA144ES		
Q411	8-729-900-65	TRANSISTOR	DTA144ES		
Q412	8-729-900-65	TRANSISTOR	DTA144ES		
Q701	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q801	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q802	8-729-422-57	TRANSISTOR	UN4111		
Q803	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q804	8-729-422-57	TRANSISTOR	UN4111		
Q805	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q806	8-729-422-57	TRANSISTOR	UN4111		
Q807	8-729-900-80	TRANSISTOR	DTC114ES		
Q808	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q809	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q820	8-729-422-57	TRANSISTOR	UN4111		
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q902	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q951	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q952	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q953	8-729-141-26	TRANSISTOR	2SC3622A-LK		
Q954	8-729-141-26	TRANSISTOR	2SC3622A-LK		
Q1001	8-729-118-01	TRANSISTOR	2SB1116-K		
Q1002	8-729-900-36	TRANSISTOR	DTC124ES		
Q1003	8-729-030-18	TRANSISTOR	2SD2525		
Q1006	8-729-030-19	TRANSISTOR	2SB1640		
Q1290	8-729-119-76	TRANSISTOR	2SA1175-HFE (EXCEPT AEP,G,IT,UK,CIS,EE)		
Q1291	8-729-111-29	TRANSISTOR	2SD1616A-K (EXCEPT AEP,G,IT,UK,CIS,EE)		
		< RESISTOR >			
R201	1-249-415-11	CARBON	680	5%	1/4W
R202	1-249-435-11	CARBON	33K	5%	1/4W
R211	1-249-415-11	CARBON	680	5%	1/4W
R212	1-249-435-11	CARBON	33K	5%	1/4W
R220	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R250	1-249-421-11	CARBON	2.2K	5%	1/4W (AEP,G,IT,UK,EE)
R251	1-249-401-11	CARBON	47	5%	1/4W (AEP,G,IT,UK,EE)
R252	1-249-441-11	CARBON	100K	5%	1/4W (AEP,G,IT,UK,EE)
R253	1-249-441-11	CARBON	100K	5%	1/4W (AEP,G,IT,UK,EE)
R254	1-249-426-11	CARBON	5.6K	5%	1/4W (AEP,G,IT,UK,EE)
R255	1-249-429-11	CARBON	10K	5%	1/4W (AEP,G,IT,UK,EE)
R256	1-247-807-31	CARBON	100	5%	1/4W (AEP,G,IT,UK,EE)
R301	1-249-430-11	CARBON	12K	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R303	1-249-432-11	CARBON	18K	5%	1/4W
R304	1-249-428-11	CARBON	8.2K	5%	1/4W
R305	1-249-425-11	CARBON	4.7K	5%	1/4W
R306	1-247-840-00	CARBON	2.4K	5%	1/4W
R307	1-249-433-11	CARBON	22K	5%	1/4W
R308	1-249-421-11	CARBON	2.2K	5%	1/4W
R309	1-249-428-11	CARBON	8.2K	5%	1/4W
R310	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-249-430-11	CARBON	12K	5%	1/4W
R352	1-249-431-11	CARBON	15K	5%	1/4W
R354	1-249-428-11	CARBON	8.2K	5%	1/4W
R355	1-249-425-11	CARBON	4.7K	5%	1/4W
R356	1-247-840-00	CARBON	2.4K	5%	1/4W
R357	1-249-433-11	CARBON	22K	5%	1/4W
R358	1-249-421-11	CARBON	2.2K	5%	1/4W
R359	1-249-428-11	CARBON	8.2K	5%	1/4W
R360	1-249-417-11	CARBON	1K	5%	1/4W
R401	1-249-425-11	CARBON	4.7K	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-249-417-11	CARBON	1K	5%	1/4W
R405	1-249-437-11	CARBON	47K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-247-882-11	CARBON	130K	5%	1/4W
R411	1-247-866-11	CARBON	30K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-247-864-11	CARBON	24K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R454	1-249-433-11	CARBON	22K	5%	1/4W
R455	1-249-433-11	CARBON	22K	5%	1/4W
R456	1-249-411-11	CARBON	330	5%	1/4W
R457	1-249-427-11	CARBON	6.8K	5%	1/4W
R458	1-249-429-11	CARBON	10K	5%	1/4W
R461	1-249-417-11	CARBON	1K	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-437-11	CARBON	47K	5%	1/4W
R703	1-249-437-11	CARBON	47K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R706	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W
R709	1-249-441-11	CARBON	100K	5%	1/4W
R710	1-249-429-11	CARBON	10K	5%	1/4W
R712	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-247-807-31	CARBON	100	5%	1/4W
R717	1-247-807-31	CARBON	100	5%	1/4W
R718	1-247-807-31	CARBON	100	5%	1/4W
R719	1-247-807-31	CARBON	100	5%	1/4W
R720	1-247-807-31	CARBON	100	5%	1/4W
R721	1-247-807-31	CARBON	100	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W (AEP,G,IT,UK,EE)
R723	1-247-807-31	CARBON	100	5%	1/4W (AEP,G,IT,UK,EE)
R724	1-247-807-31	CARBON	100	5%	1/4W
R725	1-247-807-31	CARBON	100	5%	1/4W
R726	1-247-807-31	CARBON	100	5%	1/4W
R727	1-247-807-31	CARBON	100	5%	1/4W
R728	1-247-807-31	CARBON	100	5%	1/4W
R729	1-247-807-31	CARBON	100	5%	1/4W
R730	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-247-807-31	CARBON	100	5%	1/4W
R733	1-247-807-31	CARBON	100	5%	1/4W
R734	1-247-807-31	CARBON	100	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R736	1-247-807-31	CARBON	100	5%	1/4W
R737	1-247-807-31	CARBON	100	5%	1/4W
R740	1-249-433-11	CARBON	22K	5%	1/4W (CIS)
R740	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK)
R740	1-249-427-11	CARBON	6.8K	5%	1/4W (G,IT,AR,MX,E2,H881D:US,CND)
R740	1-249-415-11	CARBON	680	5%	1/4W (JE)
R740	1-249-423-11	CARBON	3.3K	5%	1/4W (AUS)
R740	1-249-435-11	CARBON	33K	5%	1/4W (EE)
R741	1-249-423-11	CARBON	3.3K	5%	1/4W (AEP,G,IT,UK)
R741	1-249-425-11	CARBON	4.7K	5%	1/4W (AR,MX,E2,H881D:US,CND)
R741	1-249-429-11	CARBON	10K	5%	1/4W (AUS)
R741	1-249-431-11	CARBON	15K	5%	1/4W (JE)
R741	1-249-421-11	CARBON	2.2K	5%	1/4W (CIS)
R741	1-249-427-11	CARBON	6.8K	5%	1/4W (EE)
R742	1-249-413-11	CARBON	470	5%	1/4W
R743	1-247-807-31	CARBON	100	5%	1/4W
R744	1-247-807-31	CARBON	100	5%	1/4W
R745	1-247-807-31	CARBON	100	5%	1/4W
R753	1-247-807-31	CARBON	100	5%	1/4W
R755	1-247-807-31	CARBON	100	5%	1/4W
R757	1-247-807-31	CARBON	100	5%	1/4W
R758	1-247-807-31	CARBON	100	5%	1/4W
R759	1-247-807-31	CARBON	100	5%	1/4W
R760	1-247-807-31	CARBON	100	5%	1/4W
R761	1-247-807-31	CARBON	100	5%	1/4W
R762	1-249-429-11	CARBON	10K	5%	1/4W
R763	1-249-429-11	CARBON	10K	5%	1/4W
R764	1-247-807-31	CARBON	100	5%	1/4W
R769	1-249-417-11	CARBON	1K	5%	1/4W
R771	1-247-807-31	CARBON	100	5%	1/4W
R772	1-247-807-31	CARBON	100	5%	1/4W
R773	1-247-807-31	CARBON	100	5%	1/4W
R774	1-247-807-31	CARBON	100	5%	1/4W
R775	1-247-807-31	CARBON	100	5%	1/4W
R777	1-249-429-11	CARBON	10K	5%	1/4W
R778	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R821	1-249-423-11	CARBON	3.3K	5%	1/4W
R822	1-249-427-11	CARBON	6.8K	5%	1/4W
R823	1-249-417-11	CARBON	1K	5%	1/4W
R824	1-249-441-11	CARBON	100K	5%	1/4W
R825	1-247-887-00	CARBON	220K	5%	1/4W
R826	1-249-441-11	CARBON	100K	5%	1/4W
R827	1-249-429-11	CARBON	10K	5%	1/4W
R837	1-249-429-11	CARBON	10K	5%	1/4W
R838	1-249-431-11	CARBON	15K	5%	1/4W
R839	1-249-431-11	CARBON	15K	5%	1/4W
R840	1-249-399-11	CARBON	33	5%	1/4W
R841	1-249-421-11	CARBON	2.2K	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remark
R842	1-249-433-11	CARBON	22K	5%	1/4W
R843	1-249-431-11	CARBON	15K	5%	1/4W
R844	1-249-431-11	CARBON	15K	5%	1/4W
R845	1-249-429-11	CARBON	10K	5%	1/4W
R846	1-249-431-11	CARBON	15K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W
R848	1-247-903-00	CARBON	1M	5%	1/4W
R849	1-249-427-11	CARBON	6.8K	5%	1/4W
R860	1-249-437-11	CARBON	47K	5%	1/4W
R861	1-249-431-11	CARBON	15K	5%	1/4W
R862	1-249-427-11	CARBON	6.8K	5%	1/4W
R863	1-247-887-00	CARBON	220K	5%	1/4W
R864	1-247-887-00	CARBON	220K	5%	1/4W
R865	1-247-887-00	CARBON	220K	5%	1/4W
R866	1-249-441-11	CARBON	100K	5%	1/4W
R867	1-249-441-11	CARBON	100K	5%	1/4W
R868	1-249-441-11	CARBON	100K	5%	1/4W
R871	1-249-423-11	CARBON	3.3K	5%	1/4W
R872	1-249-427-11	CARBON	6.8K	5%	1/4W
R873	1-249-417-11	CARBON	1K	5%	1/4W
R874	1-249-441-11	CARBON	100K	5%	1/4W
R875	1-249-429-11	CARBON	10K	5%	1/4W
R876	1-249-429-11	CARBON	10K	5%	1/4W
R877	1-249-429-11	CARBON	10K	5%	1/4W
R880	1-249-421-11	CARBON	2.2K	5%	1/4W
R881	1-249-421-11	CARBON	2.2K	5%	1/4W
R882	1-249-417-11	CARBON	1K	5%	1/4W
R883	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-249-423-11	CARBON	3.3K	5%	1/4W
R885	1-249-437-11	CARBON	47K	5%	1/4W
R887	1-249-431-11	CARBON	15K	5%	1/4W
R888	1-249-429-11	CARBON	10K	5%	1/4W
R890	1-249-433-11	CARBON	22K	5%	1/4W
R891	1-249-433-11	CARBON	22K	5%	1/4W
R892	1-249-441-11	CARBON	100K	5%	1/4W
R893	1-249-433-11	CARBON	22K	5%	1/4W
R894	1-249-417-11	CARBON	1K	5%	1/4W
R895	1-249-433-11	CARBON	22K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-437-11	CARBON	47K	5%	1/4W
R905	1-249-441-11	CARBON	100K	5%	1/4W
R906	1-247-903-00	CARBON	1M	5%	1/4W
R907	1-249-441-11	CARBON	100K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-417-11	CARBON	1K	5%	1/4W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R911	1-249-421-11	CARBON	2.2K	5%	1/4W
R912	1-249-441-11	CARBON	100K	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
R914	1-249-437-11	CARBON	47K	5%	1/4W
R915	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R916	1-249-441-11	CARBON	100K	5%	1/4W
R917	1-249-431-11	CARBON	15K	5%	1/4W
R920	1-249-441-11	CARBON	100K	5%	1/4W
R921	1-249-437-11	CARBON	47K	5%	1/4W
R922	1-247-903-00	CARBON	1M	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
R924	1-247-903-00	CARBON	1M	5%	1/4W
R930	1-249-433-11	CARBON	22K	5%	1/4W
R931	1-249-433-11	CARBON	22K	5%	1/4W
R932	1-249-429-11	CARBON	10K	5%	1/4W
R933	1-247-903-00	CARBON	1M	5%	1/4W
R938	1-247-807-31	CARBON	100	5%	1/4W
R939	1-247-807-31	CARBON	100	5%	1/4W
R940	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-249-429-11	CARBON	10K	5%	1/4W
R942	1-249-429-11	CARBON	10K	5%	1/4W
R947	1-247-807-31	CARBON	100	5%	1/4W
R951	1-249-425-11	CARBON	4.7K	5%	1/4W
R952	1-249-429-11	CARBON	10K	5%	1/4W
R953	1-249-437-11	CARBON	47K	5%	1/4W
R955	1-249-441-11	CARBON	100K	5%	1/4W
R956	1-247-903-00	CARBON	1M	5%	1/4W
R957	1-249-441-11	CARBON	100K	5%	1/4W
R958	1-249-429-11	CARBON	10K	5%	1/4W
R959	1-249-417-11	CARBON	1K	5%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R961	1-249-421-11	CARBON	2.2K	5%	1/4W
R962	1-249-441-11	CARBON	100K	5%	1/4W
R963	1-249-429-11	CARBON	10K	5%	1/4W
R964	1-249-437-11	CARBON	47K	5%	1/4W
R965	1-249-441-11	CARBON	100K	5%	1/4W
R966	1-249-441-11	CARBON	100K	5%	1/4W
R967	1-249-431-11	CARBON	15K	5%	1/4W
R973	1-249-429-11	CARBON	10K	5%	1/4W
R974	1-247-903-00	CARBON	1M	5%	1/4W
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W
R1002	1-249-409-11	CARBON	220	5%	1/4W
R1003	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-417-11	CARBON	1K	5%	1/4W
R1020	1-249-409-11	CARBON	220	5%	1/4W
R1021	1-249-409-11	CARBON	220	5%	1/4W
R1022	1-249-421-11	CARBON	2.2K	5%	1/4W
R1023	1-249-417-11	CARBON	1K	5%	1/4W
R1296	1-249-425-11	CARBON	4.7K	5%	1/4W
			(EXCEPT AEP,G,IT,UK,CIS,EE)		
R1297	1-249-435-11	CARBON	33K	5%	1/4W
			(EXCEPT AEP,G,IT,UK,CIS,EE)		
R1298	1-249-421-11	CARBON	2.2K	5%	1/4W
			(EXCEPT AEP,G,IT,UK,CIS,EE)		

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV301	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL L)	
RV351	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL R)	
		< VIBRATOR >	
X81	1-579-900-11	VIBRATOR, CRYSTAL (4.332MHz)	(AEP,G,IT,UK,EE)
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
X701	1-760-904-21	VIBRATOR, CERAMIC (10MHz)	
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)	
X801	1-527-978-00	OSCILLATOR, CERAMIC (320kHz)	
**********			
*	1-658-578-12	MOTOR (SLIDE) BOARD	
		**********	
		< CAPACITOR >	
C801	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C804	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C805	1-126-964-11	ELECT 10uF 20% 50V	
		< CONNECTOR >	
* CN801	1-568-947-11	PIN, CONNECTOR 9P	
		< DIODE >	
D801	8-719-010-43	DIODE UZ-5.6BSC-TP	
		< IC >	
IC801	8-759-274-09	IC BA6286N	
		< RESISTOR >	
R801	1-249-401-11	CARBON 47 5% 1/4W	
		< SWITCH >	
S801	1-762-527-11	SWITCH, ROTARY (OPEN SW)	
**********			
*	1-658-577-11	MOTOR (TURN) BOARD	
		**********	
		< CAPACITOR >	
C701	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C702	1-126-964-11	ELECT 10uF 20% 50V	
C705	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< CONNECTOR >	
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P	
CN704	1-506-469-11	PIN, CONNECTOR 4P	
		< DIODE >	
D701	8-719-010-23	DIODE UZ-3.6BSB-TP	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC701	8-759-633-65	IC M54641L	
		< RESISTOR >	
R706	1-249-411-11	CARBON 330 5% 1/4W	
**********			
*	A-4389-026-A	PANEL BOARD, COMPLETE (AR,AUS,MX,E2,EE,	TH)
*	A-4389-024-A	PANEL BOARD, COMPLETE (US,CND)	
*	A-4389-025-A	PANEL BOARD, COMPLETE (AEP,G,IT,UK)	
*	A-4389-027-A	PANEL BOARD, COMPLETE	(EA,E3,HK,JE,MY,SP,CIS,TW)
		**********	
*	4-932-810-11	CUSHION (FL)	
*	4-971-014-11	HOLDER, FL TUBE	
		< CAPACITOR >	
C500	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C501	1-126-154-11	ELECT 47uF 20% 6.3V	
C502	1-162-282-31	CERAMIC 100PF 10% 50V	
C504	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C505	1-126-154-11	ELECT 47uF 20% 6.3V	
C506	1-126-160-11	ELECT 1uF 20% 50V	
C507	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C508	1-126-160-11	ELECT 1uF 20% 50V	
C509	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C510	1-162-282-31	CERAMIC 100PF 10% 50V	
C511	1-162-282-31	CERAMIC 100PF 10% 50V	
C512	1-162-282-31	CERAMIC 100PF 10% 50V	
C513	1-162-282-31	CERAMIC 100PF 10% 50V	
C514	1-162-282-31	CERAMIC 100PF 10% 50V	
C515	1-162-282-31	CERAMIC 100PF 10% 50V	
C516	1-162-282-31	CERAMIC 100PF 10% 50V	
C517	1-162-282-31	CERAMIC 100PF 10% 50V	
C518	1-162-282-31	CERAMIC 100PF 10% 50V	
C519	1-162-282-31	CERAMIC 100PF 10% 50V	
C520	1-162-282-31	CERAMIC 100PF 10% 50V	
C521	1-162-282-31	CERAMIC 100PF 10% 50V	
C522	1-162-282-31	CERAMIC 100PF 10% 50V	
C523	1-162-282-31	CERAMIC 100PF 10% 50V	
C524	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C525	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C526	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C527	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C530	1-126-160-11	ELECT 1uF 20% 50V	
C531	1-136-161-00	FILM 0.047uF 5% 50V	
C532	1-124-464-11	ELECT 0.22uF 20% 50V	
C533	1-124-464-11	ELECT 0.22uF 20% 50V	
C534	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C535	1-124-464-11	ELECT 0.22uF 20% 50V	
C536	1-136-159-00	FILM 0.033uF 5% 50V	

PANEL

Ref. No.	Part No.	Description			Remark
C537	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C538	1-124-464-11	ELECT	0.22uF	20%	50V
C539	1-162-288-31	CERAMIC	330PF	10%	50V
C540	1-124-464-11	ELECT	0.22uF	20%	50V
C641	1-126-163-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
* CN500	1-568-856-11	SOCKET, CONNECTOR 13P			
* CN502	1-568-947-11	PIN, CONNECTOR 9P			
* CN503	1-568-946-11	PIN, CONNECTOR 8P			
		< DIODE >			
D500	8-719-058-03	LED	SEL5423E-TP15 (TUNER/BAND)		
D501	8-719-033-06	LED	SEL5920A (CLIP C)		
D502	8-719-033-06	LED	SEL5920A (DSP)		
D502A	8-719-033-06	LED	SEL5920A (DSP)		
D503	8-719-033-06	LED	SEL5920A (CLIP B)		
D504	8-719-033-06	LED	SEL5920A (DIGITAL ECHO)		
D504A	8-719-033-06	LED	SEL5920A (DIGITAL ECHO)		
D505	8-719-033-06	LED	SEL5920A (CLIP A)		
D506	8-719-058-17	LED	LNJ401NPYTJA (GROOVE)		
D507	8-719-057-09	LED	LNJ801LPDJA (EFFECT ON/OFF)		
D529	8-719-033-06	LED	SEL5920A (CD)		
D531	8-719-033-06	LED	SEL5920A (1/ALL DISCS)		
D533	8-719-033-06	LED	SEL5920A (PLAY MODE)		
D535	8-719-033-06	LED	SEL5920A (REPEAT)		
D537	8-719-033-06	LED	SEL5920A (EDIT)		
D539	8-719-033-06	LED	SEL5920A (TUNER)		
D541	8-719-033-06	LED	SEL5920A (TUNING MODE)		
D543	8-719-033-06	LED	SEL5920A (TUNER MEMORY)		
D545	8-719-033-06	LED	SEL5920A (STEREO MONO)		
D547	8-719-033-06	LED	SEL5920A (PTY)		
D549	8-719-033-06	LED	SEL5920A (TIMER)		
D551	8-719-033-06	LED	SEL5920A (CLOCK SET)		
D553	8-719-033-06	LED	SEL5920A (⏲ SET)		
D555	8-719-033-06	LED	SEL5920A (⏲ SELECT)		
D557	8-719-033-06	LED	SEL5920A (SLEEP)		
D559	8-719-987-63	DIODE	1N4148M		
D560	8-719-987-63	DIODE	1N4148M		
D561	8-719-987-63	DIODE	1N4148M		
D562	8-719-987-63	DIODE	1N4148M		
D563	8-719-987-63	DIODE	1N4148M		
		< INDICATOR TUBE >			
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC500	8-759-375-43	IC	ASD0204-012-3BA		
IC501	8-759-332-18	IC	GP1U27XB		

Ref. No.	Part No.	Description		Remark
		< TRANSISTOR >		
Q500	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q501	8-729-118-00	TRANSISTOR	2SB1116-L	
Q502	8-729-118-00	TRANSISTOR	2SB1116-L	
Q503	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q504	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q505	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q506	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q514	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q515	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q516	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q517	8-729-111-29	TRANSISTOR	2SD1616A-K	
Q518	8-729-111-29	TRANSISTOR	2SD1616A-K	
Q519	8-729-111-29	TRANSISTOR	2SD1616A-K	
Q520	8-729-119-78	TRANSISTOR	2SC2785-HFE	
		< RESISTOR >		
R500	1-247-887-00	CARBON	220K 5%	1/4W
R501	1-247-903-00	CARBON	1M 5%	1/4W
R502	1-249-429-11	CARBON	10K 5%	1/4W
R503	1-249-429-11	CARBON	10K 5%	1/4W
R504	1-249-429-11	CARBON	10K 5%	1/4W
R505	1-249-429-11	CARBON	10K 5%	1/4W
R506	1-249-429-11	CARBON	10K 5%	1/4W
R507	1-249-429-11	CARBON	10K 5%	1/4W
R508	1-249-429-11	CARBON	10K 5%	1/4W
R510	1-247-807-31	CARBON	100 5%	1/4W
R511	1-247-807-31	CARBON	100 5%	1/4W
R512	1-247-807-31	CARBON	100 5%	1/4W
R513	1-247-807-31	CARBON	100 5%	1/4W
R514	1-247-807-31	CARBON	100 5%	1/4W
R515	1-247-807-31	CARBON	100 5%	1/4W
R516	1-249-441-11	CARBON	100K 5%	1/4W
R517	1-249-419-11	CARBON	1.5K 5%	1/4W
R526	1-249-415-11	CARBON	680 5%	1/4W
R527	1-249-417-11	CARBON	1K 5%	1/4W
R528	1-249-419-11	CARBON	1.5K 5%	1/4W
R529	1-249-421-11	CARBON	2.2K 5%	1/4W
R530	1-249-423-11	CARBON	3.3K 5%	1/4W
R531	1-249-427-11	CARBON	6.8K 5%	1/4W
R532	1-249-431-11	CARBON	15K 5%	1/4W
R533	1-249-419-11	CARBON	1.5K 5%	1/4W
R534	1-249-401-11	CARBON	47 5%	1/4W
R535	1-249-403-11	CARBON	68 5%	1/4W
R536	1-247-807-31	CARBON	100 5%	1/4W
R537	1-249-407-11	CARBON	150 5%	1/4W
R538	1-249-407-11	CARBON	150 5%	1/4W
R539	1-249-409-11	CARBON	220 5%	1/4W
R540	1-249-411-11	CARBON	330 5%	1/4W
R547	1-249-419-11	CARBON	1.5K 5%	1/4W
R548	1-249-401-11	CARBON	47 5%	1/4W
R549	1-249-403-11	CARBON	68 5%	1/4W

Ref. No.	Part No.	Description			Remark
R550	1-247-807-31	CARBON	100	5%	1/4W
R551	1-249-407-11	CARBON	150	5%	1/4W
R552	1-249-407-11	CARBON	150	5%	1/4W
R563	1-249-419-11	CARBON	1.5K	5%	1/4W
R564	1-249-401-11	CARBON	47	5%	1/4W
R565	1-249-413-11	CARBON	470	5%	1/4W
R566	1-249-409-11	CARBON	220	5%	1/4W
R567	1-249-411-11	CARBON	330	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-249-421-11	CARBON	2.2K	5%	1/4W
R578	1-249-429-11	CARBON	10K	5%	1/4W
R579	1-249-421-11	CARBON	2.2K	5%	1/4W
R580	1-247-807-31	CARBON	100	5%	1/4W
R581	1-249-407-11	CARBON	150	5%	1/4W
R582	1-249-403-11	CARBON	68	5%	1/4W
R583	1-249-407-11	CARBON	150	5%	1/4W
R584	1-249-403-11	CARBON	68	5%	1/4W
R585	1-249-407-11	CARBON	150	5%	1/4W
R586	1-247-807-31	CARBON	100	5%	1/4W
R587	1-249-407-11	CARBON	150	5%	1/4W
R616	1-247-807-31	CARBON	100	5%	1/4W
R617	1-247-807-31	CARBON	100	5%	1/4W
R618	1-247-807-31	CARBON	100	5%	1/4W
R619	1-247-807-31	CARBON	100	5%	1/4W
R620	1-247-807-31	CARBON	100	5%	1/4W
R621	1-247-807-31	CARBON	100	5%	1/4W
R622	1-247-807-31	CARBON	100	5%	1/4W
R623	1-247-807-31	CARBON	100	5%	1/4W
R624	1-247-807-31	CARBON	100	5%	1/4W
R625	1-247-807-31	CARBON	100	5%	1/4W
R626	1-247-807-31	CARBON	100	5%	1/4W
R627	1-247-807-31	CARBON	100	5%	1/4W
R628	1-247-807-31	CARBON	100	5%	1/4W
R629	1-247-807-31	CARBON	100	5%	1/4W
R630	1-247-807-31	CARBON	100	5%	1/4W
R631	1-247-897-11	CARBON	560K	5%	1/4W
R632	1-247-897-11	CARBON	560K	5%	1/4W
R633	1-247-897-11	CARBON	560K	5%	1/4W
R634	1-247-897-11	CARBON	560K	5%	1/4W
R646	1-249-417-11	CARBON	1K	5%	1/4W
R647	1-249-417-11	CARBON	1K	5%	1/4W
R648	1-249-417-11	CARBON	1K	5%	1/4W
R649	1-249-401-11	CARBON	47	5%	1/4W
R650	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-249-429-11	CARBON	10K	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-419-11	CARBON	1.5K	5%	1/4W
R654	1-249-437-11	CARBON	47K	5%	1/4W
R655	1-247-895-00	CARBON	470K	5%	1/4W
R656	1-249-419-11	CARBON	1.5K	5%	1/4W
R657	1-249-437-11	CARBON	47K	5%	1/4W
R658	1-247-895-00	CARBON	470K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R659	1-249-419-11	CARBON	1.5K	5%	1/4W
R660	1-249-437-11	CARBON	47K	5%	1/4W
R661	1-247-895-00	CARBON	470K	5%	1/4W
R662	1-249-437-11	CARBON	47K	5%	1/4W
R663	1-247-895-00	CARBON	470K	5%	1/4W
R665	1-249-441-11	CARBON	100K	5%	1/4W
R666	1-249-429-11	CARBON	10K	5%	1/4W

< SWITCH >

S509	1-554-303-21	SWITCH, TACTILE (TIMER)
S510	1-554-303-21	SWITCH, TACTILE (DSP)
S511	1-554-303-21	SWITCH, TACTILE (DIGITAL ECHO)
S512	1-554-303-21	SWITCH, TACTILE (1/ALL DISCS)
S513	1-554-303-21	SWITCH, TACTILE (PLAY MODE)
S514	1-554-303-21	SWITCH, TACTILE (REPEAT)
S515	1-554-303-21	SWITCH, TACTILE (EDIT)
S517	1-554-303-21	SWITCH, TACTILE (DISPLAY/DEMO)
S519	1-554-303-21	SWITCH, TACTILE (CLIP PLAY)
S520	1-554-303-21	SWITCH, TACTILE (CLIP ERASE)
S521	1-554-303-21	SWITCH, TACTILE (CLIP A)
S522	1-554-303-21	SWITCH, TACTILE (CLIP B)
S523	1-554-303-21	SWITCH, TACTILE (CLIP C)
S530	1-554-303-21	SWITCH, TACTILE (MENU 1)
S531	1-554-303-21	SWITCH, TACTILE (MENU 2)
S532	1-554-303-21	SWITCH, TACTILE (MENU 3)
S533	1-554-303-21	SWITCH, TACTILE (MENU 4)
S534	1-554-303-21	SWITCH, TACTILE (P.FILE)
S535	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)
S551	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION)
S553	1-554-303-21	SWITCH, TACTILE (GROOVE)

< VIBRATOR >

X500	1-579-233-11	VIBRATOR, CERAMIC (5MHz)
X500	1-760-489-11	VIBRATOR, CERAMIC (5MHz)

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*	A-4377-454-A	POLAR BOARD, COMPLETE (CIS)

****

< CAPACITOR >

C1701	1-162-294-31	CERAMIC	0.001uF	10%	50V	(CIS)
C1702	1-130-014-00	FILM	470PF	5%	50V	(CIS)
C1703	1-124-902-00	ELECT	0.47uF	20%	50V	(CIS)
C1704	1-124-902-00	ELECT	0.47uF	20%	50V	(CIS)
C1705	1-164-098-11	CERAMIC	0.047uF		12V	(CIS)
C1706	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1707	1-162-288-31	CERAMIC	330PF	10%	50V	(CIS)
C1710	1-137-364-11	FILM	0.001uF	5%	50V	(CIS)
C1711	1-137-364-11	FILM	0.001uF	5%	50V	(CIS)
C1712	1-130-736-11	FILM	0.01uF	5%	50V	(CIS)
C1713	1-130-736-11	FILM	0.01uF	5%	50V	(CIS)

POLAR **POWER**

Ref. No.	Part No.	Description				Remark
C1714	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1715	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1716	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1719	1-104-664-11	ELECT	47uF	20%	16V	(CIS)
C1720	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1723	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1724	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1725	1-104-664-11	ELECT	47uF	20%	16V	(CIS)
C1726	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1727	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1728	1-104-663-11	ELECT	33uF	20%	16V	(CIS)
		< CONNECTOR >				
* CN1701	1-568-832-11	SOCKET, CONNECTOR 13P (CIS)				
		< TRIMMER >				
CT1701	1-141-260-00	CAP, TRIMMER 50PF (CIS)				
		< DIODE >				
D1701	8-719-987-63	DIODE 1N4148M (CIS)				
D1703	8-719-987-63	DIODE 1N4148M (CIS)				
D1704	8-719-987-63	DIODE 1N4148M (CIS)				
D1705	8-719-987-63	DIODE 1N4148M (CIS)				
		< IC >				
IC1701	8-759-063-04	IC IR3R42 (CIS)				
IC1703	8-759-140-53	IC uPD4053BC (CIS)				
		< COIL >				
L1701	1-409-497-11	COIL (FILTER) (SUB CARRIER) (CIS)				
		< TRANSISTOR >				
Q1701	8-729-900-61	TRANSISTOR DTA114ES (CIS)				
Q1702	8-729-900-80	TRANSISTOR DTC114ES (CIS)				
Q1704	8-729-900-80	TRANSISTOR DTC114ES (CIS)				
		< RESISTOR >				
R1701	1-249-433-11	CARBON	22K	5%	1/4W	(CIS)
R1702	1-249-435-11	CARBON	33K	5%	1/4W	(CIS)
R1703	1-249-427-11	CARBON	6.8K	5%	1/4W	(CIS)
R1704	1-247-858-11	CARBON	13K	5%	1/4W	(CIS)
R1705	1-249-417-11	CARBON	1K	5%	1/4W	(CIS)
R1706	1-249-417-11	CARBON	1K	5%	1/4W	(CIS)
R1707	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
R1708	1-249-440-11	CARBON	82K	5%	1/4W	(CIS)
R1709	1-249-437-11	CARBON	47K	5%	1/4W	(CIS)
R1710	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1711	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1714	1-249-426-11	CARBON	5.6K	5%	1/4W	(CIS)
R1715	1-249-426-11	CARBON	5.6K	5%	1/4W	(CIS)
R1716	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)

Ref. No.	Part No.	Description				Remark
R1717	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
R1718	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1719	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1721	1-249-434-11	CARBON	27K	5%	1/4W	(CIS)
R1722	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
		< VARIABLE RESISTOR >				
RV1701	1-238-600-11	RES, ADJ, CARBON 10K (SUB CARRIER) (CIS)				
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K(VCO FREQENCY) (CIS)				
		< TEST PIN >				
* TP1701	1-560-061-00	PIN, CONNECTOR 3P (CIS)				
* TP1702	1-560-061-00	PIN, CONNECTOR 3P (CIS)				
**********						
*	A-4389-042-A	POWER BOARD, COMPLETE (AR,AUS,EA,SP,TW,MY,MX,JE,HK,E,TH)				
*	A-4389-040-A	POWER BOARD, COMPLETE (H881:US,CND)				
*	A-4389-041-A	POWER BOARD, COMPLETE (AEP,G,IT,UK,CIS,EE)				
*	A-4389-022-A	POWER BOARD, COMPLETE (H881D:US,CND)				
		**********				
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S				
		< CAPACITOR >				
C1201	1-126-963-11	ELECT	4.7uF	20%	50V	
C1202	1-162-292-31	CERAMIC	680PF	10%	50V	
C1203	1-162-286-31	CERAMIC	220PF	10%	50V	
C1204	1-126-967-11	ELECT	47uF	20%	50V	
C1205	1-126-967-11	ELECT	47uF	20%	50V	
C1206	1-128-576-11	ELECT	100uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1206	1-126-968-11	ELECT	100uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1207	1-164-159-11	CERAMIC	0.1uF		50V	
C1208	1-128-551-11	ELECT	22uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1208	1-126-965-11	ELECT	22uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1210	1-136-165-00	FILM	0.1uF	5%	50V	
C1211	1-136-165-00	FILM	0.1uF	5%	50V	
C1220	1-124-635-00	ELECT	220uF	20%	6.3V	
C1230	1-104-482-11	ELECT	4700uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1230	1-126-974-11	ELECT	3300uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1231	1-124-635-00	ELECT	220uF	20%	6.3V	
C1232	1-124-635-00	ELECT	220uF	20%	6.3V	
C1233	1-126-963-11	ELECT	4.7uF	20%	50V	
C1234	1-126-933-11	ELECT	100uF	20%	10V	
C1235	1-104-482-11	ELECT	4700uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1235	1-126-974-11	ELECT	3300uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1251	1-126-963-11	ELECT	4.7uF	20%	50V	

Ref. No.	Part No.	Description				Remark
C1252	1-162-292-31	CERAMIC	680PF	10%	50V	
C1253	1-162-286-31	CERAMIC	220PF	10%	50V	
C1254	1-126-967-11	ELECT	47uF	20%	50V	
C1255	1-126-967-11	ELECT	47uF	20%	50V	
C1256	1-128-576-11	ELECT	100uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1256	1-126-968-11	ELECT	100uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1260	1-136-165-00	FILM	0.1uF	5%	50V	
C1261	1-136-165-00	FILM	0.1uF	5%	50V	
C1270	1-130-781-00	FILM	0.22uF	10%	100V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1270	1-136-169-00	FILM	0.22uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
C1271	1-130-781-00	FILM	0.22uF	10%	100V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1271	1-136-169-00	FILM	0.22uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
C1272	1-136-165-00	FILM	0.1uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
C1273	1-136-165-00	FILM	0.1uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
C1276	1-136-165-00	FILM	0.1uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
C1277	1-136-165-00	FILM	0.1uF	5%	50V	(AEP,G,IT,UK,CIS,EE)
		< CONNECTOR >				
* CN1201	1-766-957-11	CONNECTOR, BOARD TO BOARD 20P				
* CN1202	1-568-937-11	PIN, CONNECTOR 10P				
* CN1203	1-564-512-11	PLUG, CONNECTOR 9P				
		< DIODE >				
D1201	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)				
D1201	8-719-987-63	DIOD 1N4148M (AEP,G,IT,UK,CIS,EE)				
D1202	8-719-987-63	DIODE 1N4148M				
D1203	8-719-987-63	DIODE 1N4148M				
D1230	8-719-987-63	DIODE 1N4148M				
D1231	8-719-987-63	DIODE 1N4148M				
D1232	8-719-987-63	DIODE 1N4148M				
D1240	8-719-987-63	DIODE 1N4148M				
D1250	8-719-510-68	DIODE D5SBA20F01				(EXCEPT AEP,G,IT,UK,CIS,EE)
D1250	8-719-025-03	DIODE RBA-402-SL (AEP,G,IT,UK,CIS,EE)				
D1251	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)				
D1251	8-719-987-63	DIODE 1N4148M (AEP,G,IT,UK,CIS,EE)				
D1270	8-719-987-63	DIODE 1N4148M				
D1271	8-719-987-63	DIODE 1N4148M				
D1272	8-719-987-63	DIODE 1N4148M				
D1290	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)				
D1291	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)				
		< TERMINAL BOARD >				
EPT1201	1-537-770-21	TERMINAL BOARD, GROUND				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC1201	8-749-900-78	IC STK4192MK2				(AR,AUS,EA,SP,MY,MX,JE,HK,E,TW,TH)
IC1201	8-749-921-68	IC STK4231MK2 (US,CND)				
IC1201	8-749-920-10	IC STK4172MK2 (AEP,G,IT,UK,CIS,EE)				
IC1201	8-759-502-31	IC SI-18751 (IA)				
IC1202	8-759-111-68	IC uPC1237HA				
		< JACK >				
J1201	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)				(EXCEPT H881D)
		< COIL >				
L1201	1-420-872-00	COIL, AIR-CORE (AEP,G,IT,UK,CIS,EE)				
L1202	1-420-872-00	COIL, AIR-CORE (AEP,G,IT,UK,CIS,EE)				
		< TRANSISTOR >				
Q1201	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q1210	8-729-900-36	TRANSISTOR	DTC124ES			
Q1230	8-729-900-36	TRANSISTOR	DTC124ES			
Q1240	8-729-900-63	TRANSISTOR	DTA124ES			
Q1241	8-729-900-36	TRANSISTOR	DTC124ES			(EXCEPT AEP,G,IT,UK,CIS,EE)
Q1242	8-729-119-78	TRANSISTOR	2SC2785-HFE			(EXCEPT AEP,G,IT,UK,CIS,EE)
Q1251	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q1270	8-729-119-78	TRANSISTOR	2SC2785-HFE(US,CND)			
Q1270	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			(EXCEPT US,CND)
Q1271	8-729-119-78	TRANSISTOR	2SC2785-HFE(US,CND)			
Q1271	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			(EXCEPT US,CND)
		< RESISTOR >				
R1201	1-249-415-11	CARBON	680	5%	1/4W	
R1202	1-249-437-11	CARBON	47K	5%	1/4W	
R1203	1-249-415-11	CARBON	680	5%	1/4W	
R1204	1-249-437-11	CARBON	47K	5%	1/4W	
R1206	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US,CND)
R1206	1-260-107-11	CARBON	4.7K	5%	1/2W	(US,CND)
R1208	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US,CND)
R1208	1-260-107-11	CARBON	4.7K	5%	1/2W	(US,CND)
⚠ R1209	1-212-881-11	FUSIBLE	100	5%	1/4W	
⚠ R1210	1-208-601-11	WIREWOUND	0.1	10%	2W F	(EXCEPT AEP,G,IT,UK,CIS,EE)
⚠ R1210	1-208-602-11	WIREWOUND	0.22	10%	2W F	(AEP,G,IT,UK,CIS,EE)
R1211	1-249-417-11	CARBON	1K	5%	1/4W	
R1212	1-249-433-11	CARBON	22K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1212	1-249-431-11	CARBON	15K	5%	1/4W	(AEP,G,IT,UK,CIS,EE)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

Ref. No.	Part No.	Description				Remark
R1213	1-249-441-11	CARBON	100K	5%	1/4W	
R1215	1-260-099-11	CARBON	1K	5%	1/2W	
R1216	1-260-099-11	CARBON	1K	5%	1/2W	
R1218	1-260-076-11	CARBON	10	5%	1/2W	
R1227	1-249-417-11	CARBON	1K	5%	1/4W	
R1228	1-247-883-00	CARBON	150K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1228	1-249-441-11	CARBON	100K	5%	1/4W	(AEP,G,IT,UK,CIS,EE)
R1230	1-249-429-11	CARBON	10K	5%	1/4W	
R1231	1-249-429-11	CARBON	10K	5%	1/4W	
R1232	1-249-441-11	CARBON	100K	5%	1/4W	
R1233	1-249-435-11	CARBON	33K	5%	1/4W	
R1234	1-249-397-11	CARBON	22	5%	1/4W	
R1235	1-249-427-11	CARBON	6.8K	5%	1/4W	(EXCEPT US,CND)
R1235	1-247-854-11	CARBON	9.1K	5%	1/4W	(US,CND)
R1236	1-249-427-11	CARBON	6.8K	5%	1/4W	(EXCEPT US,CND)
R1236	1-247-854-11	CARBON	9.1K	5%	1/4W	(US,CND)
R1237	1-249-437-11	CARBON	47K	5%	1/4W	
R1238	1-249-439-11	CARBON	68K	5%	1/4W	
R1239	1-249-429-11	CARBON	10K	5%	1/4W	
R1240	1-249-429-11	CARBON	10K	5%	1/4W	
R1242	1-249-429-11	CARBON	10K	5%	1/4W	
R1243	1-249-397-11	CARBON	22	5%	1/4W	
⚠ R1244	1-217-637-00	FUSIBLE	1	5%	1/4W F	
R1245	1-249-441-11	CARBON	100K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1246	1-249-441-11	CARBON	100K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1247	1-249-435-11	CARBON	33K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1248	1-249-429-11	CARBON	10K	5%	1/4W	
R1249	1-249-441-11	CARBON	100K	5%	1/4W	
R1251	1-249-415-11	CARBON	680	5%	1/4W	
R1252	1-249-437-11	CARBON	47K	5%	1/4W	
R1253	1-249-415-11	CARBON	680	5%	1/4W	
R1254	1-249-437-11	CARBON	47K	5%	1/4W	
R1256	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US,CND)
R1256	1-260-107-11	CARBON	4.7K	5%	1/2W	(US,CND)
R1258	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US,CND)
R1258	1-260-107-11	CARBON	4.7K	5%	1/2W	(US,CND)
⚠ R1259	1-212-881-11	FUSIBLE	100	5%	1/4W F	
⚠ R1260	1-208-601-11	WIREWOUND	0.1	10%	2W F	(EXCEPT AEP,G,IT,UK,CIS,EE)
⚠ R1260	1-208-602-11	WIREWOUND	0.22	10%	2W F	(AEP,G,IT,UK,CIS,EE)
R1261	1-249-417-11	CARBON	1K	5%	1/4W	
R1262	1-249-433-11	CARBON	22K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1262	1-249-431-11	CARBON	15K	5%	1/4W	(AEP,G,IT,UK,CIS,EE)
R1263	1-249-441-11	CARBON	100K	5%	1/4W	
R1268	1-260-076-11	CARBON	10	5%	1/2W	
R1270	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1271	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1272	1-260-093-11	CARBON	330	5%	1/2W	
R1273	1-260-093-11	CARBON	330	5%	1/2W	
R1274	1-260-093-11	CARBON	330	5%	1/2W	
R1275	1-260-093-11	CARBON	330	5%	1/2W	
R1276	1-260-076-11	CARBON	10	5%	1/2W	(AEP,G,IT,UK,CIS,EE)
R1277	1-260-076-11	CARBON	10	5%	1/2W	(AEP,G,IT,UK,CIS,EE)
R1278	1-260-072-11	CARBON	4.7	5%	1/2W	(AEP,G,IT,UK,CIS,EE)
R1279	1-260-072-11	CARBON	4.7	5%	1/2W	(AEP,G,IT,UK,CIS,EE)
R1280	1-215-892-11	METAL OXIDE	1K	5%	2W F	(AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1280	1-215-891-11	METAL OXIDE	680	5%	2W F	(US,CND)
R1280	1-216-456-00	METAL OXIDE	820	5%	2W F	(AEP,G,IT,UK,CIS,EE)
R1281	1-215-892-11	METAL OXIDE	1K	5%	2W F	(AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1281	1-215-891-11	METAL OXIDE	680	5%	2W F	(US,CND)
R1281	1-216-456-00	METAL OXIDE	820	5%	2W F	(AEP,G,IT,UK,CIS,EE)
R1282	1-249-429-11	CARBON	10K	5%	1/4W	
R1283	1-249-441-11	CARBON	100K	5%	1/4W	
R1284	1-215-892-11	METAL OXIDE	1K	5%	2W F	(AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1284	1-215-893-11	METAL OXIDE	1.5K	5%	2W F	(US,CND)
R1284	1-216-456-00	METAL OXIDE	820	5%	2W F	(AEP,G,IT,UK,CIS,EE)
R1285	1-249-413-11	CARBON	470	5%	1/4W	
R1290	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT H881D)
R1291	1-249-421-11	CARBON	2.2K	5%	1/4W	(EXCEPT H881D)
R1293	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT H881D)
R1294	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)
R1295	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)

< RELAY >

RY1201	1-515-920-11	RELAY (24V) (EXCEPT US,CND)
RY1201	1-515-356-00	RELAY (US,CND)
RY1202	1-515-920-11	RELAY (24V) (EXCEPT US,CND)
RY1202	1-515-356-00	RELAY (US,CND)
RY1203	1-515-920-11	RELAY (24V)

< THERMISTOR (POSITIVE) >

THP12011	1-807-796-11	THERMISTOR (EXCEPT AEP,UK,G,IT,CIS,EE,IA)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		< TERMINAL >	
TM1201	1-537-925-31	TERMINAL BOARD (SPEAKER)	
TM1202	1-537-925-31	TERMINAL BOARD (SURROUND SPEAKER)	
**********			
*	1-658-576-12	SENSOR BOARD	
		**********	
		< IC >	
IC702	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391	
IC703	8-749-924-30	IC PHOTO REFLECTOR GP2S28	
		< RESISTOR >	
R701	1-249-416-11	CARBON 820 5% 1/4W	
R702	1-249-407-11	CARBON 150 5% 1/4W	
**********			
*	A-4303-514-A	TCB BOARD, COMPLETE (AEP,UK)	
*	A-4303-515-A	TCB BOARD, COMPLETE (G,IT)	
*	A-4303-516-A	TCB BOARD, COMPLETE (EE)	
*	A-4303-517-A	TCB BOARD, COMPLETE (CIS)	
*	A-4303-518-A	TCB BOARD, COMPLETE (E3,EA,MY,SP,TW,HK,JE,IA)	
		**********	
		< CAPACITOR >	
C1	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C2	1-126-967-11	ELECT 47uF 20% 16V	
C3	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C5	1-163-031-11	CERAMIC CHIP 0,01uF 50V	
C6	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C7	1-101-004-00	CERAMIC 0.01uF 50V (EXCEPT AEP,UK,G,IT)	
C8	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C9	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C10	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C11	1-163-038-91	CERAMIC CHIP 0.1uF 25V (EXCEPT AEP,UK,G,IT,EE)	
C11	1-216-295-11	METAL CHIP 0 5% 1/10W (G,IT)	
C14	1-163-038-91	CERAMIC CHIP 0.1uF 25V (EXCEPT AEP,UK,G,IT,EE)	
C15	1-136-162-00	CERAMIC 0.056uF 50V (EXCEPT AEP,UK,G,IT,EE)	
C16	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C17	1-163-031-11	CERAMIC CHIP 0.01uF 50V (EXCEPT AEP,UK,G,IT,EE)	
C18	1-163-088-00	CERAMIC CHIP 5PF 50V (EXCEPT AEP,UK,G,IT,EE)	
C19	1-163-249-11	CERAMIC CHIP 82PF 5% 50V (AEP,UK,EE)	
C21	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C22	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C23	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C24	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C26	1-126-967-11	ELECT 47uF 20% 16V	

Ref. No.	Part No.	Description	Remark
C28	1-126-967-11	ELECT 47uF 20% 16V	
C29	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C30	1-124-925-11	ELECT 2.2uF 20% 100V	
C31	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C32	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C33	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C34	1-163-091-00	CERAMIC CHIP 8PF 50V (EXCEPT AEP,UK,EE)	
C34	1-163-229-11	CERAMIC CHIP 12PF 5% 50V (AEP,UK,EE)	
C35	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C36	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C37	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C38	1-162-211-31	CERAMIC 33PF 5% 50V (EXCEPT AEP,UK,G,IT,EE)	
C39	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C40	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C41	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C42	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C43	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C44	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C45	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C46	1-163-077-00	CERAMIC CHIP 0.1uF 10% 25V	
C47	1-126-967-11	ELECT 47uF 20% 16V	
C48	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C49	1-124-902-00	ELECT 0.47uF 20% 50V	
C50	1-124-903-11	ELECT 1.0uF 20% 50V	
C51	1-124-903-11	ELECT 1.0uF 20% 50V	
C52	1-126-964-11	ELECT 10uF 20% 50V	
C53	1-126-964-11	ELECT 10uF 20% 50V	
C54	1-126-157-11	ELECT 10uF 20% 16V	
C55	1-126-157-11	ELECT 10uF 20% 16V	
C56	1-126-157-11	ELECT 10uF 20% 16V	
C57	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C58	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C59	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V (AEP,UK,IT,G)	
C59	1-163-989-11	CERAMIC CHIP 0.033uF 10% 25V (EXCEPT AEP,UK,IT,G)	
C60	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V (AEP,UK,IT,G)	
C60	1-163-989-11	CERAMIC CHIP 0.033uF 10% 25V (EXCEPT AEP,UK,IT,G)	
C61	1-126-301-11	ELECT 1uF 20% 50V	
C62	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C63	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C64	1-126-967-11	ELECT 47uF 20% 16V	
C65	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C66	1-126-162-11	ELECT 3.3uF 20% 50V	
C67	1-126-933-11	ELECT 100uF 20% 10V	
C68	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C69	1-126-964-11	ELECT 10uF 20% 50V (CIS)	

TCB (AEP,UK,G,IT,EE,CIS,E3, EA,MY,SP,TW,HK,JE,IA)

Ref. No.	Part No.	Description			Remark
C70	1-126-964-11	ELECT	10uF	20% 50V	(CIS)
C71	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C72	1-126-967-11	ELECT	47uF	20% 16V	
C120	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	(AEP,UK,IT,G)
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC (EXCEPT AEP,UK,G,IT)			
CF1	1-579-374-71	FILTER, CERAMIC (AEP,UK,G,IT)			
CF2	1-760-393-11	FILTER, CERAMIC (AEP,UK,G,IT)			
CF3	1-567-389-11	FILTER, CERAMIC (EXCEPT AEP,UK,G,IT)			
CF3	1-760-393-11	FILTER, CERAMIC (AEP,UK,G,IT)			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN2	1-568-832-11	SOCKET, CONNECTOR 13P (CIS)			
		< TRIMMER >			
CV1	1-141-227-00	TRIMMER (EXCEPT AEP,UK,G,IT,EE)			
CV2	1-141-227-00	TRIMMER (EXCEPT AEP,UK,G,IT,EE)			
		< DIODE >			
D1	8-719-976-30	DIODE KV1560N (EXCEPT AEP,UK,G,IT,EE)			
D21	8-719-976-99	DIODE UDZ-TE-17-5.1B			
D41	8-719-016-74	DIODE 1SS352-TPH3			
D42	8-719-987-63	DIODE 1N4148M-TP (CIS)			
D43	8-719-987-63	DIODE 1N4148M-TP (CIS)			
		< FRONT END >			
FE1	1-233-532-11	FRONT END (E3,EA,MY,SP,HK,JE,IA)			
FE1	1-233-542-11	FRONT END (4 GAND) (AEP,UK,IT,G)			
FE1	1-693-335-11	FRONT END (3 GAND) (EE,CIS)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT (AEP,UK,EE)			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (G,IT)			
FE2	1-239-262-11	ENCAPSULATED COMPONENT			(EXCEPT AEP,UK,G,IT,EE)
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR1	1-216-295-11	METAL CHIP	0	5% 1/10W	(G,IT)
JR2	1-216-295-11	METAL CHIP	0	5% 1/10W	(AEP,UK,EE)
JR3	1-216-295-11	METAL CHIP	0	5% 1/10W	(G,IT)
JR6	1-216-295-11	METAL CHIP	0	5% 1/10W	(AEP,UK,IT,G)
JR7	1-216-295-11	METAL CHIP	0	5% 1/10W	(G,IT)
JR8	1-216-295-11	METAL CHIP	0	5% 1/10W	(AEP,UK,EE)
JR9	1-216-295-11	METAL CHIP	0	5% 1/10W	(AEP,UK,EE)
JR45	1-216-295-11	METAL CHIP	0	5% 1/10W	
JR46	1-216-296-11	METAL CHIP	0	5% 1/8W	
JR47	1-216-295-11	METAL CHIP	0	5% 1/10W	
JR48	1-216-295-11	METAL CHIP	0	5% 1/10W	
JR49	1-216-296-11	METAL CHIP	0	5% 1/8W	
JR50	1-216-295-11	METAL CHIP	0	5% 1/10W	(EXCEPT AEP,UK,G,IT,EE)
JR51	1-216-295-11	METAL CHIP	0	5% 1/10W	(EXCEPT G,IT)
JR52	1-216-295-11	METAL CHIP	0	5% 1/10W	
JR53	1-216-296-11	METAL CHIP	0	5% 1/8W	(EXCEPT G,IT)
JR54	1-216-295-11	METAL CHIP	0	5% 1/10W	
JW4	1-249-413-11	CARBON	470	5% 1/4W	(AEP,UK,IT,G)
JW5	1-249-413-11	CARBON	470	5% 1/4W	(AEP,UK,IT,G)
		< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH			(EXCEPT AEP,UK,G,IT,EE)
L2	1-414-142-11	MICRO INDUCTOR 1uH (AEP,UK,IT,G)			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L4	1-410-515-11	INDUCTOR 33uH (AEP,UK,G,IT)			
L41	1-407-500-00	MICRO INDUCTOR 4.7mH (AEP,UK,EE)			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH			(EXCEPT AEP,UK,EE)
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q5	8-729-424-08	TRANSISTOR MUN2111T1			
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L			(EXCEPT AEP,UK,G,IT,EE)
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6 (EXCEPT G,IT)			
Q10	8-729-216-22	TRANSISTOR 2SA812-M5M6			(EXCEPT AEP,UK,G,IT,EE)
Q11	8-729-421-22	TRANSISTOR MUN2211T1 (AEP,UK,EE)			
Q12	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)			
Q13	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)			
Q14	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,EE)
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
R20	1-216-121-91	METAL CHIP	IM	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R21	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-11	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-11	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-11	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-11	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-021-00	METAL CHIP	68	5%	1/10W
R45	1-249-423-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-11	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W (AEP,UK,G,IT,EE,CIS)
R48	1-249-423-11	CARBON	3.3K	5%	1/4W (EXCEPT AEP,UK,G,IT,EE,CIS)
R49	1-216-061-11	METAL CHIP	3.3K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R54	1-216-162-00	METAL CHIP	33	5%	1/8W (EXCEPT G,IT)
R55	1-216-162-00	METAL CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-295-11	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)			
RV42	1-238-600-11	RES, ADJ, CARBON 10K (FM TUNING LEVEL)			
		< COIL >			
T1	1-409-505-11	COIL (ANT.SW3) (EXCEPT AEP,UK,G,IT,EE)			
T2	1-402-960-11	COIL (OSC.SW3) (EXCEPT AEP,UK,G,IT,EE)			
		< TERMINAL >			
TM1	1-537-238-11	TERMINAL BOARD (ANT) (ANTENNA) (E3,EA,MY,SP,TW,HK,JE,IA)			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA) (AEP,UK,G,IT,EE,CIS)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450KHz)			
X43	1-577-075-11	OSCILLATOR, CERAMIC (456KHz)			
**********					
*	A-4303-522-A	TCB BOARD, COMPLETE (US,CND)			
*	A-4303-524-A	TCB BOARD, COMPLETE (E2,AUS,AR,MX,TH)			
		**********			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-164-159-21	CERAMIC	0.1uF		50V
C5	1-162-306-11	CERAMIC	10000PF	30%	16V
C6	1-162-306-11	CERAMIC	10000PF	30%	16V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-162-306-11	CERAMIC	10000PF	30%	16V
C9	1-162-306-11	CERAMIC	10000PF	30%	16V
C11	1-164-159-21	CERAMIC	0.1uF		50V
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V
C14	1-162-306-11	CERAMIC	10000PF	30%	16V

TCB (US,CND,E2,AUS, AR,MX,TH)

Ref. No.	Part No.	Description			Remark
C21	1-102-959-00	CERAMIC	22PF	5% 50V	
C21	1-102-960-00	CERAMIC	24PF	50V	
C22	1-164-159-21	CERAMIC	0.1uF	50V	
C23	1-162-306-11	CERAMIC	10000PF	30% 16V	
C24	1-126-967-11	ELECT	47uF	20% 16V	
C25	1-162-306-11	CERAMIC	10000PF	30% 16V	
C26	1-126-964-11	ELECT	10uF	20% 50V	
C27	1-164-159-21	CERAMIC	0.1uF	50V	
C28	1-124-925-11	ELECT	2.2uF	20% 100V	
C29	1-102-518-11	CERAMIC	33PF	5% 50V	
C30	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C31	1-162-306-11	CERAMIC	10000PF	30% 16V	
C41	1-126-933-11	ELECT	100uF	20% 10V	
C42	1-162-306-11	CERAMIC	10000PF	30% 16V	
C43	1-126-962-11	ELECT	3.3uF	20% 50V	
C44	1-162-306-11	CERAMIC	10000PF	30% 16V	
C45	1-124-589-11	ELECT	47uF	20% 16V	
C46	1-162-600-11	CERAMIC	4700PF	30% 16V	
C47	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C48	1-126-160-11	ELECT	1uF	20% 50V	
C49	1-136-159-00	METALIZED FILM	0.033uF	5% 50V	(EXCEPT US,CND)
C49	1-136-160-00	METALIZED FILM	0.039uF	5% 50V	(US,CND)
C50	1-136-159-00	METALIZED FILM	0.033uF	5% 50V	(EXCEPT US,CND)
C50	1-136-160-00	METALIZED FILM	0.039uF	5% 50V	(US,CND)
C51	1-162-600-11	CERAMIC	4700PF	30% 16V	
C52	1-162-600-11	CERAMIC	4700PF	30% 16V	
C53	1-126-964-11	ELECT	10uF	20% 50V	
C54	1-126-157-11	ELECT	10uF	20% 16V	
C55	1-126-964-11	ELECT	10uF	20% 50V	
C56	1-126-964-11	ELECT	10uF	20% 50V	
C57	1-164-159-21	CERAMIC	0.1uF	50V	
C58	1-162-306-11	CERAMIC	10000PF	30% 16V	
C59	1-164-159-21	CERAMIC	0.1uF	50V	
C61	1-164-159-21	CERAMIC	0.1uF	50V	
C62	1-126-967-11	ELECT	47uF	20% 16V	
C63	1-164-159-21	CERAMIC	0.1uF	50V	
C64	1-124-902-00	ELECT	0.47uF	20% 50V	
C65	1-124-903-11	ELECT	1.0uF	20% 50V	
C66	1-124-903-11	ELECT	1.0uF	20% 50V	
C67	1-126-964-11	ELECT	10uF	20% 50V	
C68	1-162-306-11	CERAMIC	10000PF	30% 16V	
C69	1-162-306-11	CERAMIC	10000PF	30% 16V	
C70	1-162-306-11	CERAMIC	10000PF	30% 16V	
C71	1-162-306-11	CERAMIC	10000PF	30% 16V	
C73	1-162-306-11	CERAMIC	10000PF	30% 16V	
C74	1-126-964-11	ELECT	10uF	20% 50V	
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-832-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D1	8-719-933-33	DIODE UZL-6L1-TA			
D2	8-719-987-63	DIODE 1N4148M-TA			
		< FRONT END >			
FE1	1-233-533-11	ENCAPSULATED COMPONENT			
FE2	1-239-260-11	ENCAPSULATED COMPONENT			
		< IC >			
IC1	8-759-288-54	IC LC72130			
IC2	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< COIL >			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4			
Q2	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4			
Q3	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4			
Q4	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4			
Q5	8-729-422-57	TRANSISTOR BN1A4M-TP			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5% 1/4W	
R2	1-249-411-11	CARBON	330	5% 1/4W	
R3	1-249-411-11	CARBON	330	5% 1/4W	
R5	1-249-411-11	CARBON	330	5% 1/4W	
R6	1-247-863-91	CARBON	22K	5% 1/4W	
R7	1-249-411-11	CARBON	330	5% 1/4W	
R8	1-249-411-11	CARBON	330	5% 1/4W	
R9	1-247-863-91	CARBON	22K	5% 1/4W	
R10	1-249-411-11	CARBON	330	5% 1/4W	
R11	1-247-863-91	CARBON	22K	5% 1/4W	
R12	1-249-411-11	CARBON	330	5% 1/4W	
R13	1-249-411-11	CARBON	330	5% 1/4W	
R14	1-247-863-91	CARBON	22K	5% 1/4W	
R15	1-249-429-11	CARBON	10K	5% 1/4W	

TRANS

Ref. No.	Part No.	Description	Remark
*	1-659-116-11	TRANS BOARD **********	
		< HOLDER, FUSE >	
	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
CN1601	1-564-321-00	PIN, CONNECTOR 2P	
CN1602	1-564-524-11	PLUG, CONNECTOR 9P	
		< FUSE >	
⚠ F1601	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1602	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1603	1-532-350-00	FUSE (T4AL,250V) (E,EA,SP,JE,HK,IA,MX)	
⚠ F1603	1-533-420-00	FUSE,GLASS TUBE (5A 125V) (US,CND)	
⚠ F1604	1-532-203-00	FUSE (T2AL,250V) (E,EA,JE,HK,AR,MY,AUS,TW)	
		< RESISTOR >	
⚠ R1600	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)	
⚠ R1602	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
⚠ R1603	1-219-139-11	FUSIBLE 0.68 5% 1/4W F	
⚠ R1604	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
		< SWITCH >	
⚠ VS1601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (AR,EA,SP,TW,JE,HK,E,IA)	
		< TRANSFORMER >	
⚠ T1601	1-429-294-11	TRANSFORMER, POWER (US,CND)	
⚠ T1601	1-429-296-11	TRANSFORMER, POWER (AEP,G,IT,UK,CIS,EE)	
⚠ T1601	1-429-298-11	TRANSFORMER, POWER (AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E)	
⚠ T1601	1-429-299-11	TRANSFORMER, POWER (IA)	
**********			
		MISCELLANEOUS **********	
* 5	1-533-217-31	HOLDER, FUSE	
8	1-751-086-11	WIRE (FLAT TYPE) (13 CORE) (US,CND,AR,AUS,E2,MX,TH,EA4)	
8	1-773-012-11	WIRE (FLAT TYPE) (15 CORE) (AEP,IT,G, UK,CIS,EE,E3,JE,MX,MY,EA3,TW,SP,IA)	
⚠ 12	1-575-651-11	CORD, POWER (AR,AEP,G,IT,EA,CIS,SP,MY,HK,EE,TW)	
⚠ 12	1-575-653-11	CORD, POWER (MX,JE,E,IA)	
⚠ 12	1-690-608-11	CORD, POWER (AUS)	
⚠ 12	1-690-609-21	CORD, POWER (US,CND)	
⚠ 12	1-751-520-21	CORD, POWER (UK)	
⚠ 12	1-751-326-31	CORD, POWER (TH)	
14	1-698-659-11	FAN, DC (EXCEPT AEP,G,IT,UK,CIS,EE)	
17	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
⚠ 18	1-569-007-11	ADAPTER, CONVERSION 2P (E,JE,IA)	
⚠ 18	1-569-008-11	ADAPTER, CONVERSION 2P (EA3,SP,TW)	
⚠ 18	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
68	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
69	1-765-325-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT TH,EA4)	
69	1-769-945-11	WIRE (FLAT TYPE) (11 CORE) (TH,EA4)	
77	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
257	1-452-538--11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
266	1-776-442-11	WIRE (FLAT TYPE) (19 CORE) (EXCEPT TH)	
⚠ 301	8-848-367-11	DEVICE, OPTICAL KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠ F1601	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1602	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
⚠ F1603	1-532-350-00	FUSE, (T4AL,250V) (E,EA,SP,JE,HK,IA,MX)	
⚠ F1603	1-533-420-11	FUSE, GLASS TUBE(5A 125V) (US,CND)	
⚠ F1604	1-532-203-00	FUSE, (T2AL,250V) (E,EA,JE,HK,AR,MY,AUS,TW)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
M101	X-4917-523-4	BASE OUTSERT ASSY(SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY(SLED)	
M701	A-4660-586-A	MOTOR ASSY(TURN)	
M801	A-4660-586-A	MOTOR ASSY(SLIDE)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	
S851	1-473-335-11	ENCODER, ROTARY	
⚠ T1601	1-429-294-11	TRANSFORMER, POWER	
⚠ T1601	1-429-295-11	TRANSFORMER, POWER (US,CND:made in Indonesia)	
⚠ T1601	1-429-296-11	TRANSFORMER, POWER (AEP,IT,G,UK,EE,CIS:made in Malaysia)	
⚠ T1601	1-429-297-11	TRANSFORMER, POWER (AEP,IT,G,UK,EE,CIS:made in Indonesia)	
⚠ T1601	1-429-298-11	TRANSFORMER, POWER (AR,AUS,EA3,E,HK,JE, MX,MY,SP,TW:made in Malaysia/TH,EA4 :made in Thailand)	
⚠ T1601	1-429-299-11	TRANSFORMER, POWER (AR,AUS,E,HK,MX,SP,IA:made in Indonesia)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	4-980-428-01	CUSHION (FRONT)	
	4-980-429-01	CUSHION (REAR)	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#9	7-621-775-10	SCREW +B 2.6X4	
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-621-255-15	SCREW +P 2X3	
#12	7-685-871-01	SCREW +BVTT 3X6 (S)	

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